COLLIN COUNTY

Office of the Purchasing Agent
2300 Bloomdale Road
Suite 3160
McKinney, Texas 75071
www.collincountytx.gov

COLLIN COUNTY, TEXAS

ADDENDUM No. Four (4) IFB No. 2021-239

INVITATION FOR BID

FOR

CONSTRUCTION, COLLIN COUNTY ADULT DETENTION FACILITY, PHASE 1 ADDITION

DATE: AUGUST 20, 2021

NOTICE TO ALL PROSPECTIVE BIDDERS:

PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:

CHANGE BID DUE DATE:	FROM: AUGUST 26, 2021 AT 2:00 P.M.
	TO: SEPTEMBER 9, 2021 AT 2:00 P.M.
CHANGE QUESTION DEADLINE:	FROM: AUGUST 20, 2021 AT 12:00 P.M.
	TO: AUGUST 30, 2021 AT 5:00 P.M.
ADD DOCUMENT:	8/17/21 ELECTRICAL ROOM SITE-WALK SIGN-IN SHEET
ADD DOCUMENT:	ARCHITECT'S ADDENDUM 2
ADD DOCUMENT:	SECTION 32 31 15
DELETE DOCUMENT:	SECTION 09 30 10
DELETE DOCUMENT:	SECTION 07 60 00
REPLACE WITH:	SECTION 07 60 00 ADDEMDUM 2
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REPLACE WITH: SECTION 004100-BID FORM ADDENDUM 4

ADD ATTRIBUTE: #23-ADDENDUM No. 4 ACKNOWLEDGEMENT

ALL OTHER TERMS AND CONDITIONS OF THE BID AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY,
MICHELLE CHARNOSKI, NIGP-CPP, CPPB
PURCHASING AGENT

JDG

IFB# 2021-239
ELECTRICAL ROOM SITE-WALK SIGN-IN SHEET

Project:	Construction, Collin County Adult Detention Facility, Phase 1 Addition	**Meeting Date:**	August 17, 2021
Facilitator:	J.D. Griffin	**Place/Room:**	Adult Detention Facility

Name	Company	Phone	E-Mail
Tom Taylor	MCS Integrated	469.670.8644	TTaylor@MCSIntegrated.com
Andrew Micklitz	Lee Lewis Construction	214-399-1585	amicklitz@leelewis.com
Michael Smith	MD Engineering	469.467.0200	msmith@md-eng.com
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Aaron McConnell	VelexSI	903-946-1954	aaron.mcconnell@velexsi.com
Coy Warner	Imperial	817-341-8886	estimating@imperial-construction.com
Clayton Kongable	" "	" "	" "
Will Lowetz	East Fork Services	214-529-1909	Will.lowetz@EastFork.Net
J.D. Griffin	Collin County		

ADDENDUM NO. 2

TO

Collin Count Adult Detention Facility, Phase 1

McKinney, Texas

August 18, 2021

Project: 21913.00
From: Brinkley Sargent Wiginton Architects, Inc.
To: Bidders of Record

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

PROJECT MANUAL MODIFICATIONS

Item No. 1. **Section 07 60 00 Flashing and Sheet Metal**

A. Specification updated.

Item No. 2. **Section 08 34 95 Fire and Smoke Curtains**

A. Paragraph 2.03.A was modified.

Item No. 3. **Section 08 71 00 Door Hardware**

A. Added set 5.1, updated door references.

Item No. 4. **Section 09 30 10 Tile**

B. This section is deleted.

Item No. 5. **Section 10 00 00 Misc. Specialties**

A. Specification updated.

Item No. 6. **Section 10 50 00 Lockers**

B. Specification updated and also to include added manufacturers.

Item No. 7. **Section 14 24 47 Hydraulic Elevators**

A. Specification updated.

Item No. 8. **Section 32 31 15 Site Fencing Vertical**

A. Specification section added.

DRAWINGS MODIFICATIONS

Note to bidders on drawing modifications: Any revision made to a sheet as part of this Addendum, regardless of the scale of the modification, results in the reissuance of that full sheet. The description for the revisions follows below, but the full sheet is reissued to allow revised sheets to simply be substituted for the sheets originally issued.

Item No. 9. **Sheet – C105**

A. Note added to sheet.

Item No. 10. **Sheet – C119**

A. Pipe size updated.

Item No. 11. **Sheet – S201**

A. Stoop detail at grid a updated.

Item No. 12. **Sheet – S202**

A. Stoop detail at grid l updated.

B. Slab callout on plan 2 was updated.

Item No. 13. **Sheet – S211**

A. Slab callout at grid c was updated.

Item No. 14. **Sheet – S212**

A. Detail 4/S502 was added at the elevator.

B. Top of steel elevation added for the n/s corridor adjacent to existing

Item No. 15. **Sheet – S222**

A. Expansion joint location updated at n/s corridor adjacent to existing.

Item No. 16. **Sheet – S231**

A. Framing updated at the roof hatch.

B. Steel joists were updated to wide flanges to accommodate the future roof screen wall.

Item No. 17. **Sheet – S301**

A. Pier type P7 was added to the schedule.

Item No. 18. **Sheet – S303**

A. Horizontal wall reinforcing updated on detail 8.

Item No. 19. **Sheet – S305**

A. Slab reinforcing updated on detail 2.

B. Dba length updated on detail 6.

C. Headed stud location updated on detail 6.

Item No. 20. **Sheet – S306**

A. Updates were made to detail 8.

Item No. 21. **Sheet – S307**

A. Notes were updated on detail 5, 6, 7, and 8.

Item No. 22. **Sheet – S308**

A. Detail 3 was updated.

B. Detail 7 was updated.

Item No. 23. **Sheet – S503**

A. Connection of the edge angle to CMU wall was updated in detail 5.

Item No. 24. **Sheet – S505**

A. Details 8 and 9 were added.

Item No. 25. **Sheet – S602**

A. Updates were made to beam reinforcing for both the regular and post-tensioned beam schedules.

Item No. 26. **Sheet – A020**

A. Window protection note updated.

B. Fire Marshal fire protection standard comments and elevator comments added.

Item No. 27. **Sheet – A020, A021, A022**

A. Window protection note updated.

Item No. 28. **Sheet – A201, A210, A222, A223, A281**

A. Updated plan at fire room door.

Item No. 29. **Sheet – A411**

A. Updated finish note and fire door.

Item No. 30. **Sheet – A702**

A. Door 1029 added.

B. Updated door hardware.

Item No. 31. **Sheet – A800**

A. Finish note added.

Item No. 32. **Sheet – D213**

A. Tag added.

Item No. 33. **Sheet – D702**

A. Ratings updated.

Item No. 34. **Sheet – ES223,**

A. Relocated camera #C002 based on architectural revisions.

B. Relocated security door intercoms and door control symbol based on architectural changes to door DST01A.

C. Relocated Security door monitor symbols based on architectural changes to door 1025.

Item No. 35. **Sheet – M003**

A. MDE Revision: Added UH-18.

Item No. 36. **Sheet – M004**

A. MDE Revision: Removed M-6F, M-8E, & M-9F.

Item No. 37. **Sheet – M006, M007, M008, M009, M010, M011, & M012**

A. MDE Revision: Added minimum outside air calculations.

Item No. 38. **Sheet – M120**

A. MDE Revision: Revised General Note 2.

Item No. 39. **Sheet – M121**

A. MDE Revision: Revised General Note 2.

Item No. 40. **Sheet – M122**

A. MDE Revision: Revised General Note 2.

Item No. 41. **Sheet – M201**

A. MDE Revision: Removed tap into Stair ST03. Revised air distribution accordingly.

Item No. 42. Sheet – M202

A. MDE Revision: Removed tap into Stair ST06 & ST07. Revised air distribution accordingly. Provided transfer duct from 1314 to 1401

B. Added UH-18 in Pump Room 1029.

Item No. 43. Sheet – M212

A. MDE Revision: Removed tap into Stair ST05, ST07, & ST06. Revised air distribution accordingly.

Item No. 44. Sheet – M221

A. MDE Revision: Removed tap into Stair ST02 & ST03. Removed motorized damper M-6F & M-8E.

Item No. 45. Sheet – M222

A. MDE Revision: Removed tap into Stair ST01. Removed motorized damper M-9F.

Item No. 46. Sheet – M302

A. MDE Revision: Added UH-18 & associated hydronic piping.

Item No. 47. Sheet – M403

A. MDE Revision: Revised Smoke Removal Schematic and Matrix for removal of motorized damper M-6F, M-8E, & M-9F.

Item No. 48. Sheet – M501

A. MDE Revision: Revised Mechanical Piping Flow Diagram for added UH-18.

Item No. 49. Sheet – M503

A. MDE Revision: Added Flow Diagram – AHU. Revised control points matrix.

Item No. 50. Sheet – M504

A. MDE Revision: Revised control points matrix.

Item No. 51. Sheet – M505

A. MDE Revision: Revised control points matrix.

Item No. 52. Sheet – M506

A. MDE Revision: Revised control points matrix.

Item No. 53. Sheet – M507

A. MDE Revision: Revised control points matrix.

Item No. 54. Sheet – FP202, FP204, FP206

A. MDE Revision: added city comment note to sheet, revised FP-1 fire pump schedule

Item No. 55. Sheet – FP201, FP202, FP203, FP204, FP205, FP206, FP207

A. MDE Revision: added fire protection standard note from city comments

Item No. 56. Sheet – P003

A. MDE Revision: revised WS-1 water softener model and revised main water pipe size on water demand schedule from 3” to new 4”

Item No. 57. Sheet – P201, P202, P211, P212

A. MDE Revision: Revised underfloor and above floor from lower-level reflecting relocated water softener and revised water pump and fire pump room per city comment

Item No. 58. **Sheet – P301, P302**

A. MDE Revision: Revised pressure piping from lower-level reflecting relocated water softener and revised water pump and fire pump room per city comment

Item No. 59. **Sheet – E013**

A. MDE Revision: Updated panel schedule L1B to reflect circuit changes.

Item No. 60. **Sheet – E015**

A. MDE Revision: Updated heater schedule and damper schedule.

Item No. 61. **Sheet – E202**

A. MDE Revision: Updated lighting and switches in 1025 and 1029 to reflect background changes.

Item No. 62. **Sheet – E201, E211, E212, E222, E311**

A. MDE Revision: General note added.

Item No. 63. **Sheet – E221**

A. MDE Revision: Moved light fixture in mechanical room corridor to wall.

Item No. 64. **Sheet – E302**

A. MDE Revision: Moved receptacles in 1025 and added receptacle to 1029 to reflect background changes.

Item No. 65. **Sheet – E401**

A. MDE Revision: Moved receptacle for Water softener to 1028 to reflect plumbing changes.

Item No. 66. **Sheet – E402**

A. MDE Revision: Moved devices to reflect background changes. Moved pump BP-1 to 1029.

Item No. 67. **Sheet – Sheet – ES301**

A. Modified UPS Bypass text from Div. 26 to Div. 28.

Item No. 68. **Sheet – Sheet – ES403**

A. Modified UPS to be provided from by Div. 26 to Div. 28.

ADDENDUM 2 ATTACHMENTS:

Specification Sections as listed above

Drawing Sheets as listed above.

END OF ADDENDUM

SECTION 32 31 15 SITE PERIMETER SECURITY FENCE SYSTEM- VERTICAL

PART I - GENERAL

1.1 SUMMARY

A. Provide wire mesh fence system where shown on the drawings, as specified herein, and as needed for a complete and proper installation.
   1. 15 foot tall above grade standard design security fence
   2. Fence fabric to extend 36” below grade. Provide anti- corrosive coating at fence posts and buried portions.
   3. 18” diameter x 6’ deep reinforced 3,000 psf concrete fence post foundations; starting 36” below grade.

B. Related work:
   1. Documents affecting work of this Section include, but are not necessarily limited to, Conditions of the Contract; Division 1, and other sections of these specifications.

C. References for material specifications:
   1. American Society for Testing and Materials (ASTM) Standards:
      A90 Test method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles.
      A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric.
      A428 Test Method for Weight of Coating on Aluminum-Coated Iron or Steel Articles.
      A446 Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality.
      A525 Specification for General Requirements for Steel Sheet, Zinc - Coated (Galvanized) by the Hot-Dip Process.
      A569 Specification for Steel, Carbon (0.15 Maximum Percent), Hot-Rolled Sheet Strip, Commercial Quality.
      A817 Specification for Metallic-Coated Steel Wire for Chain Link Fence Fabric.
      C94 Ready Mixed Concrete.
      F626 Specification for Fence Fittings.

   2. Federal Specifications (Fed. Spec.):
      RR-F-191H/GEN Fencing, Wire and Post, Metal
      RR-F-191/1D Fencing, Wire and Post, Metal
      RR-F-191/2D Fencing, Wire and Post, Metal
      RR-F-191/3D Fencing, Wire and Post, Metal
      RR-F-191/4D Fencing, Wire and Post, Metal

1.2 SUBMITTALS

A. Submit the following:
   1. Materials list of items proposed to be provided under this section;
   2. Manufacturer's specifications and other data needed to prove compliance with the specific requirements;
   3. Shop Drawings showing all fencing components and details of fencing, gates, post tops, tensions bands and bars, sleeves and corner post attachments; footings. These Shop Drawings shall be accompanied by a layout drawing showing spacing of posts and location of gate, corner, end and pull posts.
   4. Project submittals shall include layout of the fencing and a fence-line profile and appropriate details. Requirements such as height of fence, gate style(s) and sizes shall be indicated. Where electrical-equipment-fence enclosures are required, the Contract Drawings and specifications shall provide for such features as clearance between fence and electrical equipment and wiring, clearance between fence and equipment foundations to allow for proper width of truck aisles, and positive stops to prevent gates from swinging inward or sliding off track. If the area to be fenced has an irregular surface, drainage structures and fence-line grading for rugged areas shall be identified, and the profile with pertinent information shall be included in the fencing layout.

1.3 QUALITY ASSURANCE

A. Contractors shall show proof of experience for anti- climb type fence installations by submitting an affidavit from the manufacturer stating the date of instruction. Contractors not having this affidavit or otherwise unfamiliar with this type of fence installation shall provide a manufacturer's representative with a minimum of 5 years of experience on the job site at the commencement of installation to instruct the contractor's personnel in the proper methods of installation. Upon completion, an inspection shall be made by the manufacturer representative to assure proper workmanship.

1.4 DELIVERY, STORAGE AND HANDLING

A. Deliver fencing materials to the site in an undamaged condition. Carefully store materials off the ground to provide proper protection against oxidation caused by ground contact.

PART 2 - PRODUCTS

2.1 MANUFACTURERS/FABRICATORS; subject to the requirements stated herein:

A. Riverdale, www.riverdale.com 415.308.1235 [Basis of Design]

2.2 MATERIALS COATING

A. On steel framework and appurtenances, provide galvanized finish with not less than the following weight of zinc per square foot:
   1. Tube: 1.1 +/- .10 ounce per square foot, complying with ASTM A525
   2. Appurtenances - Per ASTM F626

B. Provide finish with not less than the following weight of zinc or aluminum per square foot, as indicated below:
   1. For wire mesh minimum conforming to ASTM A-641.
   2. For posts and appurtances, comply with ASTM A817, using either aluminized, Type I or galvanized, Type II. Minimum 2 oz. per square foot zinc per side conforming to ASTM 1043.

2.3 FABRIC

A. Properties
   1. Dimensional tolerance: +/- 1/8”
   2. Spacing tolerance: +/- 1/16”.
   3. Permissible vertical bow: 2”.
   4. Savage trim 0 min. /1/16” max
   5. Shear tabs: 0 min. /1/8” max
   6. Panel weight ~105 lbs.
   7. Panel dimensions and spaces expressed as center to center of wires unless specified differently.
   8. Panel size: 87” wide x height as shown on drawings.
   9. Gauge: 8 ga.
   10. Panel profile: intermediate vertical oriented members at 3”.
   11. Posts at 7’ O.C.
   12. Finish: GAW [galvanized after welding].
   13. Clamps, including rail to panel and other hardware per manufacturer’s system
   14. C posts: 45K min. yield steel per ASTM A570, Grade 45, coated with min. 2 oz. zinc per sq. ft. per ASTM F1043-Type A
   15. Flat bars at splices/ seams: 60 k min yield steel per ASTM A 470; depth as required for height of panel; wall thickness 0.150.

2.4 POST, RAILS, ASSOCIATED ITEMS

A. End, Corner, Slope, Line and Gate Posts: Provide at least the following minimum sizes and weights:

Material and dimensions: Lbs per lin ft:
Class 1, steel pipe, Grade B 6.56
Wall thickness: min. .160"
Yield Strength: 50,000 psi min (RR-F-191)
Comply with RR-F-191
Outside dimension: 4.0"

B. Rails: Provide at least the following minimum size and weight:

Material and Dimensions: Lbs per lin ft:
Class 1, steel pipe, Grade A or B 2.27/1.82
Wall Thickness: .14"(A), .11"(B)
Yield Strength: 25,000 psi min (A) 50,000 psi min (B)
Comply with RR-F-191
Outside dimension: min. 1-5/8"
Provide an intermediate rail at all fences over 7'-6" tall

C. Post tops:
1. Provide steel post tops designed as weather tight closure caps.
2. Provide one cap for each post.
3. Do not use loop caps.

2.6 MISCELLANEOUS MATERIALS AND ACCESSORIES

A. Concrete: ASTM C 94 3000-psi compressive strength at 28 days, using 3/8" maximum size aggregate. Site mixed concrete will be acceptable. Grout shall consist of one part cement to three parts clean, well-graded sand and the minimum amount of water required to produce a workable mix.

B. Razor Wire: Atkore Razor Ribbon Helical Barbed Tape [basis of design]. 18" diameter; 33 coil loops; stainless steel strip material and core wire; 18" loop spacing; ASTM F1910, Item 1.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

B. Establish a graded fence line prior to the installation of fencing. The ground along the line of the fence shall be solid, and dirt fill used to establish the fence line shall be thoroughly compacted. The fence line shall be cleared of all trees, brush or other obstacles that will interfere with the fencing or facilitate breach.

3.2 INSTALLATION

A. General:
1. Install posts at widths to match panel sizes, less required overlap.
2. For all terminal points in the fence line, including ends, corners, gates and significant changes in grade.
3. Install corner or pull posts where changes in direction exceed 30 degrees or significant grade changes are encountered.
4. Corners and terminals are to be executed in a manner, consistent with the drawings, which absolutely precludes hand/foot holds for the length of the mesh.
5. Terminal posts at buildings shall be finished, consistent with drawings, to provide closure to within .25" of the building.
6. Mesh shall be continuous at the attack side of the fence; no exposed posts or other items that could be used to climb on.

B. Excavating:
   1. Drill holes for post footings in firm, undisturbed or compacted soil, strictly adhering to the dimensions and spacing shown in the Project Drawings.
   2. Where the footing is in plain soil, excavate a 15" minimum diameter hole to a depth of 4' 0" below the mesh line.
   3. Where bedrock (solid rock) is encountered, bore a hole with a diameter, which is 2" greater than that of the sleeve/bolt assembly. A typical sleeve/bolt assembly has a 4.5" diameter; the hole should have a 6.5" diameter. The depth of the hole in the rock shall be the lesser of the following dimensions: 4' total depth of footing or 18" depth in solid rock.
   4. Spread soil from excavations uniformly adjacent to the fence line, or on adjacent areas of the site if so directed. (note engineering requirements may change footing dimensions)

C. Setting sleeve/bolt assemblies:
   1. Remove loose and foreign materials from sides and bottoms of holes, and moisten soil prior to placing concrete.
   2. Center and align sleeve/bolt assemblies in holes. Ensure that sleeve/bolt assemblies are plumb on two perpendicular planes.
   3. Ensure that the support bolt at the bottom of the sleeve is the correct depth below grade level, as shown in the drawings.
   4. Place concrete around sleeve/bolt assemblies in a continuous pour, and vibrate or tamp for consolidation.
   5. Grout-in those sleeve/bolt assemblies, which are set into concrete constructions or rock excavations, using non- shrink portland cement grout or other grouting material approved by the designer.
   6. Seal gap between post and sleeve with grout or approved sealant to prevent water intrusion.

D. Concrete strength
   Allow concrete to attain at least 75% of its minimum 28-day strength before rails and fabric are installed.

E. Rails and bracing:
   1. Install fence using horizontal rails, as indicated in the drawings.
   2. Install rails using boulevard clamps, end rail clamps and rail ends; following manufacturer installation guidelines.
   3. Brace end, corner, gate and pull posts to the nearest posts with horizontal braces used as compression members.

F. Installing Mesh:
   1. Install mesh on the secure side of the fence, as indicated by drawings; following manufacturer guidelines.
   2. Install mesh so the top edge extends a minimum of 4" beyond post cap

G. Miscellaneous:
   1. Peen the ends of bolts to prevent removal of nuts. Weld nuts where necessary.
   2. Repair coatings damaged in the shop or during field erection, using a repair compound applied in accordance with its manufacturer's recommendations.

END OF SECTION

SECTION 07 60 00 FLASHING AND SHEET METAL *AD2

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes
   1. Parapet cap flashing.
   2. Counter flashings over base flashings.
   3. Roof, sill and cant strip protection.
   4. Counter flashings for roof mounted equipment, screens and hatches.

B. Related Sections
   1. Divison 3: Precast Concrete.
   2. Section 04 22 00: Brick.
   3. Section 06 10 00: Rough Carpentry.
   4. Section 07 54 23: TPO Roofing.
   5. Section 07 92 00: Sealants and Caulking.

1.02 REFERENCES

A. ASTM A 526 - Steel sheet, zinc-coated (galvanized) by the hot-dip process, commercial quality.

B. ASTM A 527 - Steel sheet, zinc-coated (galvanized) by the hot-dip process, lock forming quality.

C. ASTM B 209 - Aluminum alloy sheet and plate.

D. FS TT S 00120C Sealing compound: Elastomeric type, single component.

1.03 SHOP DRAWINGS

A. Submit shop drawings in accordance with Section 01 30 00.

B. Clearly detail shaping, jointing, the length of sections, fastening, and installation details, thickness and type of metal, expansion joints and methods of anchoring to adjacent work.

1.04 WARRANTY

A. Provide Owner with a warranty stating that metal flashings will properly shed water for a minimum period of two (2) years from the date of Substantial Completion of the Work, as certified by Architect, and that damage resulting from failure to provide above stated performances will be repaired to satisfaction of Owner at no additional cost.
B. Provide coating warranty for at least 20 years for fade, failure and other variables available from the manufacturer.

PART 2 – PRODUCTS

2.01 SHEET METALS

A. Galvanized Steel: ASTM A 526, minimum 24 gauge thick, extra smooth, minimum spangle, tension leveled, hot dipped galv. steel with coil coated 70% Kynar 500/ Hylar 5000 resin based fluoropolymer FSFcoating finish of 1.0 mil DFT with a wash coat of .35 mil DFT on reverse side; 20-year warranty; complying with AAMA 2605.
   1. Color as selected.

B. Galvanized Steel: ASTM A 526, minimum 24 gauge thick, hot-dipped galvanized steel G-90, Commercial quality, paint grip type. Utilize at areas not visible to public view.

2.02 COMPONENTS

A. Fasteners: Concealed hook strip or clip type, of the same material as flashings, sized to suit the application.

B. Sealant: One component, non- priming; premium grade advance polymer sealant, conforming at a minimum to FD TT S 00230; non-staining, non-bleeding, non-sagging, of the color selected by Architect. Titebond WeatherMaster Metal Roof Sealant [basis of design]. Plus or minus 50% joint movement; weather and aging resistant; extrusion down to 0 degrees F; UV resistant; <1% shrinkage.

C. Solder and Flux: Type recommended for materials being used.

D. Nails, Rivets and Screws: Furnish in metal type compatible with sheet metal.

E. Cleats: .06-inch-thick aluminum, mill finish.

2.03 ACCESSORY MATERIALS

A. Formed Copings
   1. Coil coated Kynar-based resin system 24 gauge galvanized steel. Formed in 10-foot sections; lock exterior edges over continuous cleats to secure to the substrate.
   2. Extend sheet roofing over the top of the wall and down the face until it overlaps the weather barrier- to provide a continuous weather/ air barrier. At locations without sheet roofing utilize peel and stick type membrane.
   3. Cross Joints: Provide an ‘under’ type splice joint of 8” wide coping metal centered under ¾” wide joint.
   4. Coping Corners: Mitered, seamed and permanently sealed; extend 2'-0" back from a corner in each direction.
   5. Bottom edges of the aprons on the copings, both front and a back side, shall be hemmed and locked over with minimum 24 gauge galvanized steel cleats- at extensions over extending over the gap and masonry utilize min. 20 gauge material. All underside support framing/ cleats are intended to run continuous- with splices occurring staggered to coping splice joints. The cleats shall be secured to parapet with screws at 12" o.c.

B. Metal Counter and Through-Wall Flashing
   1. 26 gauge galvanized (coil coated if visible to view) steel formed in 8-foot sections; lap end joints 3 inches; do not solder joints; make continuous angles; overlap base flashing a minimum of 3 inches. Extend thru-wall flashing at counterflashing through entire veneer thickness and provide water-resistant connection to the substrate.
   2. Fabricate two- piece type for ease in re- roofing.
   3. Provide L-shaped inside and outside corner pieces extending 4 inches each way from the corner.

C. Umbrella Shields
   1. 24 gauge galvanized steel, formed from one piece sheet metal; joint lapped 1/2 inch, pop-riveted and soldered; shield held in place with screwdriver adjusted pipe clamp.
   2. Provide continuous bead of sealant at top edge for the watertight condition.

D. Conductor Heads: Configuration as shown; with overflow where required.

E. Downspouts: Configuration as noted on drawings; provide braces at 2'-0" from each end; elbox 90 degrees at the bottom; hidden fastener straps. Provide covers at the bottom where these tie to civil drainage systems.

F. Underlayment/Peel N Stick: Tamko TW Metal and Tile underlayment or approved equal to provide a flexible, self- adhering sheet membrane with fastener sealability [min. ASTM D 1970], designed for high temperature and for a min. 45-day exposure. Install in longest rolls/ fewest seams as possible. Coordinate compatibility with adjacent materials/ systems.

2.04 FABRICATION

A. Workmanship: Conform to specifications and recommended practices of the Sheet Metal and Air-Conditioning National Association Architectural Manual, latest edition, for forming, soldering, anchoring, cleaning and provisions for thermal expansion and contraction.

B. When work is required to be executed in conjunction with non-metallic type roofing and flashing products, coordinate sheet metal work in conjunction therewith and execute in such a manner as to permit required roofing bonds to be obtained.

C. Provide all accessories or other items essential to the completeness of sheet metal installation, even though not specifically shown or specified. All such items, unless otherwise shown or specified shall be of the same kind of material as an item to which applied. Nails, screws and bolts shall be of types best suited for the purpose intended and of a composition that is compatible with metal to which it will contact.

D. Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.

E. Form sections in maximum practical lengths. Make allowances for expansion at joints.

F. Sheet metal work shall be formed, fabricated and installed to adequately provide for expansion and contraction in the completed work, and shall finish water and weather tight throughout. Lock seam work shall be made flat and true to line and sweated full of solder. Flat lock seams, and lap seams where soldered shall be at least 1/2" wide. Lap seams, not soldered, shall lap according to pitch but in no case less than 3". Seams shall be made in direction of flow.

G. Wipe, wash and clean soldered joints to remove traces of flux immediately after soldering.

H. Sheet metal work exposed to the weather shall be permanently watertight and weathertight, with suitable provision made for free expansion and contraction without causing leaks.

I. Separate dissimilar metals from each other by painting each metal surface in the area of contact with a heavy application of the bituminous coating, or by other permanent separation as recommended by the manufacturers of the dissimilar metals.

J. Any defective work shall be removed and replaced by the Contractor.

2.05 SOFFIT PANELS

A. Prefinished factory formed metal panels- Basis- of- Design: MBCI FW 120; Morin A-12
   1. Flush Panel.
   2. Material: .032" (.8 mm) aluminum, alloy 3105-H14.
   3. Panel Dimension: 12” wide with 1" (25 mm) seam height. Panels to be single panel full width.
   4. Texture: Smooth texture.
   5. Exterior Finish: fluoropolymer.

2.06 *AD2 CONCEALED-FASTENER, LAP-SEAM METAL WALL PANELS- MECHANICAL SCREEN

A. General: Provide factory-formed metal panels designed to be field assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.

B. Flush-Profile, Concealed-Fastener Metal Wall Panels- 'Mechanical Screen': Formed with vertical panel edges and intermediate stiffening ribs symmetrically spaced between panel edges; with flush joint between panels; field assembled with nested lapped edges, and attached to supports using concealed fasteners.
   A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      1. ATAS International, Inc.
      2. Fabral.
      3. MBCI; a division of NCI Group, Inc.
      4. Morin - A Kingspan Group Company.
      5. Petersen Aluminum Corporation.
      6. VICWEST.
   B. MBCI 'FW-120-1 [Basis of Design]; 12" wide; smooth finish, Signature 300 coating system on both front and back of panel [at back on exposed locations]. Provide jamb/ end, sill and head trim; color to match panels. Fasten per manufacturer recommendations.
   C. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
      1. Nominal Thickness: 20 gage.
      2. Exterior Finish: Two-coat fluoropolymer.
      3. Color: As selected by Architect from manufacturer's full range.

PART 3 – EXECUTION

3.01 PREPARATION

A. Verify dimensions and take measurements necessary at the site before fabrication of items to ensure proper fit. Carefully examine areas to receive sheet metal and report defects and deficiencies. Do not start installation until conditions are corrected.

B. Furnish to appropriate trades flashing and other sheet metal items requiring installation by others, and coordinate with other trades when joining with their work.

3.02 INSTALLATION

A. Install flashing and sheet metal as indicated and in accordance with SMACNA Manual.

B. Unless otherwise indicated, provide soldered flat-lock seams, with metal folded back to form hem on concealed side of exposed metal.

C. Provide for thermal expansion and contraction in sheet metal items exceeding 15'-0" in running length. Place expansion joints at 10'-0" o.c. maximum and 2'-0" from corners and intersections.

D. Secure flashings in place using specified type fasteners. Use exposed fasteners only in locations approved by Architect. When using exposed fasteners, they are to be of same finish as flashings.

E. Lock seams and end joints. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate.

F. All flashings having the top edge exposed shall be counter flashed with metal in strips not over 10 feet in length, shaped to lie flat against the flashing and overlapping the same not less than 4". Exposed edges shall be doubled under hemmed 1/2" to straight lines. End joints shall lap 3", and at corners the metal shall be bent around the angle or locked and soldered.

G. Joints shall be blind soldered where possible and all excess removed.

H. Surfaces to be covered with sheet metal shall be smooth and free from defects of every description. All such surfaces shall be cleaned of dirt, rubbish and other foreign materials before the sheet metal work is started. All projecting nails shall be driven flush with the roof boarding.

I. Formed coping splice pieces shall be installed with double sealant tape parallel to and at either side of the joint.

END OF SECTION

SECTION 08 3495 FIRE AND SMOKE CURTAINS *AD 2

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:
1. * AD2 Smoke detector-activated, fabric fire barrier enclosure system at the windows in Record/ Bond Office Station, Room 1308.
2. Self-closing without auxiliary power.
3. Rectangular or polygon shaped enclosure system for horizontal penetrations or complex shaped vertical enclosures.
4. Closed fabric bellows enclosure deployed from ceiling.
5. Open fabric bellows enclosure connected to walls.

B. Related Requirements:
1. 08 31 00–Access Panels.
2. 09 22 00– Load Bearing Header Framing
3. 09 91 00–Paint: Field painting of specified components.
4. 28 30 00–Detection and Alarm: Provision of smoke detectors.
5. Division 26 Sections for 240V and control circuit power including conduit, boxes, conductors, wiring devices, and emergency power.

1.02 REFERENCES

A. NFPA Codes and Standards:
1. 70 – National Electrical Code.
2. 72 – National Fire Alarm Code-2002 and 2007.

B. UL Standards:
1. 268 – Smoke Detectors for Fire Protective Signaling Systems.
2. 864 – Control Units for Fire Protective Signaling Systems.

1.03 SUBMITTALS

A. Comply with Section 01 33 00–Submittal Procedures:
1. Product Data.
2. Shop Drawings:
a. Include configuration layout and dimensions.
b. Show and identify related work performed under other sections of the specifications.
3. Quality Assurance/Control Submittals:
a. Certifications.
b. Manufacturer’s installation instructions and testing procedures.

1.04 CLOSEOUT SUBMITTALS

A. Comply with Section 01 77 00–Project Closeout:
1. Operation and Maintenance Manual.
2. Manufacturer’s Warranty

1.05 QUALITY ASSURANCE

A. Certifications:

1. UL864 / UL10 B / UL 10 D / UL10C / NFPA 252 / UL1784 /ASTM E 84 / OSHPD CA Certificate / CAL FIRE Listing

B. Pre-Installation Meeting:
1. Schedule and convene a pre-installation meeting prior to commencement of field operations with representatives of the following in attendance: Owner, Architect, General Contractor, fire barrier system sub-contractor, and electrical sub-contractor.
2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.
3. Document responsibilities of various parties and deviations from specifications and installation instructions.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with Section 01 66 00–Delivery, Storage, and Handling.

B. Comply with manufacturer's instructions.

1.07 WARRANTY

A. Provide manufacturer's standard one year warranty.

B. Maintenance and Testing:
1. Perform minimum semi-annual maintenance and testing on each smoke containment system as required by the manufacturer's warranty, code agency evaluation reports, and as required by local authority having jurisdiction.
2. Backup Battery: Tested per the Operation and Maintenance Manual.
3. Provide test documentation.

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

A. Stoebich Fire & Smoke Curtain P. [Basis of Design]

B. Manufacturers, subject to the requirements stated herein:
1. Stoebich Fire Protection
2. SmokeGuard www.smokeguard.com

C. Label each fire barrier system with following information:
1. Manufacturer's name.
2. Label of quality control agency.

2.02 PERFORMANCE / DESIGN CRITERIA

A. Test Operation and Fire Operation: By gravity, controlled by building fire alarm system signal and test switch.
1. Raise Curtain after Test and After Fire Alarm: Power operated motor in roller.
2. Reset After Test and After Fire Alarm: Automatic. No service call needed. No replacement parts needed.

B. Maximum Opening Sizes (feet):
1. 52.5 side length x up to 19.9 drop x up to 300 feet perimeter.
2. Perimeter more than 164 feet, maximum drop of 11.5 feet.
3. Perimeter less than 164 feet, maximum drop of 19.9 feet.

4. Minimum leg length for open system is 5 feet.

2.03 COMPONENTS

A. * AD 2 Curtain Fabric: Glass filament fabrics of glass fiber material coated on one side with a polyester polyurethane latex, with steel wire. Rectangular or polygon shaped base area of the closure. Creates corners without additional columns. Subject to the requirements stated provide:
   1. Ecotex 1100
   2. McKeon D400.
   3. Ratings: E90, UL 10B tested 90 minute fire rating and UL 1784 smoke rating.

B. Side Guide Assembly:
   1. Manufacturer's standard.
   2. Use special wall guide for open systems.

C. Casing/Bearing Type: Standard bearing.

D. Safety Unit: Manufacturer's standard attached to housing.

E. Bottom Bar:
   1. Warp free, self- leveling type sealed flush to ceiling.

F. Closing System:
   1. Gravigen, fail safe operation.
   2. Provide a minimum of 2 drive units and one additional drive unit for each 32.8 feet of perimeter above 65.6 feet in length.
   3. 208-240V AC.

G. Control System:
   1. UL 864.
   2. RZ7 with battery backup.
      Hold open time 45 minutes (RZ7).

H. Finishes:
   1. Galvanized, field finished as noted.

2.04 FABRICATION

A. Installation Configuration:
   1. Casings attached directly to ceiling above opening or layout.
   2. Provide wall guides for open type layout.

B. Fabricate and install mounting brackets, hardware, and fasteners needed to attach curtain assembly to building structure.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates upon which work will be installed.
   1. Verify related work performed under other sections is complete and in accordance with Shop Drawings.
   2. Verify wall surfaces are acceptable for installation of smoke containment system components.

B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.

C. Coordinate electrical interface and connection with Division 26.

D. Coordinate interface and connection with fire alarm system.

E. Commencement of work by installer is acceptance of substrate.

3.02 INSTALLATION

A. Install fire barrier system components in accordance with manufacturer's installation instructions.

3.03 FIELD QUALITY CONTROL

A. Field Test: Follow manufacturer's cycle test procedures.
   1. Notify Owner's Representative, local Fire Marshal and alarm sub-contractor minimum one week in advance of scheduled testing.
   2. Complete maintenance service record.

3.04 DEMONSTRATION

A. Demonstrate required testing and maintenance procedures to Owner's Representative.

B. Screen Replacement Notice: Inform Owner's Representative that smoke containment screen requires replacement following exposure to temperatures exceeding 200 degrees F.

END OF SECTION

SECTION 087100 - DOOR HARDWARE

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check

Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Five years for exit hardware.
3. Twenty five years for manual overhead door closer bodies.
4. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

a. Bommer Industries (BO).
b. Hager Companies (HA).
c. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Bommer Industries (BO).
b. Hager Companies (HA).
c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.3 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Hager Companies (HA) - ETW-QC (# wires) Option.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

a. Hager Companies (HA) - Quick Connect.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC-C Series.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

a. Burns Manufacturing (BU).
b. Door Controls International (DC).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

B. Coordinators: ANSI/BHMA A156.3 certified door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Door Controls International (DC).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

C. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

1. Manufacturers:

a. dormakaba Best (BE).

C. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

D. Interchangeable Cores: Provide small format interchangeable cores as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

G. Construction Keying: Provide temporary keyed construction cores.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent

markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

    a. Lund Equipment (LU).
    b. MMF Industries (MM).
    c. Telkee (TK).

2.7 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.13 requirements to 10 million cycles or greater.

2. Manufacturers:

    a. Sargent Manufacturing (SA) - 8200 Series.
    b. Match Facility Standard.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

6. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

7. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.

8. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

9. Rail Sizing: Provide exit device rails factory sized for proper door width application.

10. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

    a. Sargent Manufacturing (SA) - 80 Series.
    b. Match Facility Standard.

2.10 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.

4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:

a. Sargent Manufacturing (SA) - 281 Series.
b. Match Facility Standard.

2.11 SURFACE MOUNTED CLOSER HOLDERS

A. Electromagnetic Door Holders: Certified ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate.12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.

1. Manufacturers:

a. Rixson (RF) - 980/990 Series.
b. Sargent Manufacturing (SA) - 1560 Series.

2.12 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.13 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Burns Manufacturing (BU).
b. Hiawatha, Inc. (HI).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and

shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

   a. Rixson Door Controls (RF).
   b. Sargent Manufacturing (SA).

2.14 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

   1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

   1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

   1. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
   2. Reese Enterprises, Inc. (RE).

2.15 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

   1. Manufacturers:

a. Security Door Controls (SD) - DPS Series.
b. Securitron (SU) - DPS Series.

B. Switching Power Supplies: Provide power supplies with either single or dual voltage configurations at 12 or 24VDC. Power supplies shall have battery backup function with an integrated battery charging circuit and shall provide capability for power distribution, direct lock control and Fire Alarm Interface (FAI) through add on modules. Power supplies shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs.

1. Manufacturers:

a. Securitron (SU) - AQD Series.

C. Energy Efficient Switching Power Supplies: Provide UL listed or recognized filtered and regulated power supplies. Provide single voltage units as shown in the hardware sets. Units must have one access control input and one fire alarm input. Standby power consumption of unit must be less than 10mW at 120VAC. Provide integral battery backup as standard for all units. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

1. Manufacturers:

a. Securitron (SU) - EPS Series.

2.16 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures” and “Cash Allowances”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.
2. Submit documentation of incomplete items in the following formats:

    a. PDF electronic file.
    b. Electronic formatted file integrated with the Openings Studio™ door opening management software platform.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. SA - SARGENT
5. BE - dormakaba Best
6. RF - Rixson
7. OT - Other
8. SU - Securitron

Hardware Sets

Set: 1.0
Doors: 1025, 1026, 1027, 1029, CH04A, CH04B, CH05, CH08, CH09
Description: Ext - Sgl - Storeroom - Closer/stop

1	Continuous Hinge	CFM__HD1		PE
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 CPS	EN	SA
1	Threshold	253x3AFG		PE
1	Rain Guard	346C		PE
1	Sweep	315CN		PE

Notes:
Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 2.0

Doors: 2023
Description: Pair - Storeroom - AFB - Closer/stop

8	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Automatic Flush Bolt	2842/2942	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Coordinator	2672	US28	RO
2	Mounting Bracket	2601AB or 2601C	US28	RO
2	Surface Closer	281 PS	EN	SA
1	Gasketing Pair	S88BL		PE
1	Astragal	3572SP		PE

Set: 3.0
Doors: 2013
Description: Pair - Storeroom - MFB - OH Stop - DC

8	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Flush Bolt	557	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
2	Surf Overhead Stop	10-X36	630	RF
2	Silencer - Metal Frame	608		RO
2	Position Switch	DPS-M-BK		SU

Set: 4.0
Doors: 1406A, 2024, ST07A, ST07B
Description: Dbl Egress Pair - CVR/EO - Closer - MHO

2	Continuous Hinge	CFM__HD1		PE
2	CVR Exit, Exit Only	12 MD8610 EO	US32D	SA
2	Surface Closer	281 O/P9	EN	SA
2	Electromagnetic Holder	998M x Voltage	689	RF
1	Gasketing Pair	S88BL		PE
1	Astragal	357SP		PE

Set: 5.0
Doors: 1404A
Description: Sgl – Rim/FSE Trim - RX - Card Reader - Closer/stop - DC

3	Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Hinge (heavy weight)	T4A3786 QCxx 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit, FSE	53 55 70 8876 - ETP	US32D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 PS	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO
1	ElectroLynx Harness	QC-Cxxx sized for door width		MK
1	ElectroLynx Harness	QC-C1500P		MK

1 Position Switch	DPS-M-BK		SU
1 Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 5.1*AD 2
Doors: 1404B
Description: Sgl – Rim/FSE Trim - RX - Card Reader - Closer/stop - DC

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1 Rim Exit, FSE	53 55 70 8876 - ETP	US32D	SA
1 Cylinder/core	As required	626	BE
1 Surface Closer	281 PS	EN	SA
1 W/F Stop	406 / 441CU	US26D	RO
3 Silencer - Metal Frame	608		RO
1 ElectroLynx Harness	QC-Cxxx sized for door width		MK
1 ElectroLynx Harness	QC-C1500P		MK
1 Position Switch	DPS-M-BK		SU
1 Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 6.0
Doors: 1311, 2104A, 2204A, 2304A
Description: Sgl - 2C Lock - 2 Card Reader - Closer - DC

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1 Fail Safe Lock	70 8272- LNP	US26D	SA
2 Cylinder/core	As required	626	BE
1 Surface Closer	281 O/P9	EN	SA
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 W/F Stop	406 / 441CU	US26D	RO
1 Gasketing Pair	S88BL		PE
2 Card Reader	By security provider		OT
1 Position Switch	DPS-M-BK		SU
1 Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 7.0
Doors: 1406B, 2006, 2103A, 2203A, 2303A
Description: Sgl - 2C Lock - 2 Card Reader - Closer - Remote Release - DC

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1	Fail Safe Lock	70 8272- LNP	US26D	SA
2	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	W/F Stop	406 / 441CU	US26D	RO
1	Gasketing Pair	S88BL		PE
1	ElectroLynx Harness	QC-Cxxx sized for door width		MK
1	ElectroLynx Harness	QC-C1500P		MK
2	Card Reader	By security provider		OT
1	Position Switch	DPS-M-BK		SU
1	Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Remote release.

Set: 8.0
Doors: 1205, 1213, 2015
Description: Sgl - FSE Lock - RX - Card Reader - Closer - DC

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1	Fail Secure Lock	RX 70 8271- LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO
1	ElectroLynx Harness	QC-Cxxx sized for door width		MK
1	ElectroLynx Harness	QC-C1500P		MK
1	Position Switch	DPS-M-BK		SU
1	Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 9.0
Doors: 2098
Description: Sgl - FSE Lock - RX - Card Reader - Closer/stop - DC

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK

1	Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1	Fail Secure Lock	RX 70 8271- LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 PS	EN	SA
3	Silencer - Metal Frame	608		RO
1	ElectroLynx Harness	QC-Cxxx sized for door width		MK
1	ElectroLynx Harness	QC-C1500P		MK
1	Position Switch	DPS-M-BK		SU
1	Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 10.0
Doors: 1308
Description: Sgl - FSE Lock - RX - Card Reader - Closer - OH Stop - DC

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	TA2714 QCxx 4-1/2" x 4-1/2"	US26D	MK
1	Fail Secure Lock	RX 70 8271- LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surf Overhead Stop	10-X36	630	RF
1	Surface Closer	281 O/P9	EN	SA
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
3	Silencer - Metal Frame	608		RO
1	ElectroLynx Harness	QC-Cxxx sized for door width		MK
1	ElectroLynx Harness	QC-C1500P		MK
1	Position Switch	DPS-M-BK		SU
1	Power Supply	EPS-05		SU

Notes:
Coordinate voltage, operation and electrical characteristics with all related trades.

Card Reader, wiring and connections by security provider.

Set: 11.0
Doors: ST04B
Description: Sgl - Rim/Passage - Closer - KP

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit (passage)	12 8815 ETL	US32D	SA
1	Surface Closer	281 O/P9	EN	SA
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	W/F Stop	406 / 441CU	US26D	RO
1	Gasketing Sgl	S88BL		PE

Set: 12.0
Doors: 1015, 1109, 1116, 1206, 1307
Description: Sgl - Storeroom - Closer

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO

Set: 13.0
Doors: 2219, 2309, 2318, 2319, 3211, 3307, 3308
Description: Sgl - Storeroom - Closer - DC

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO
1	Position Switch	DPS-M-BK		SU

Set: 14.0
Doors: 1016, 1134, 1201, 1318, 1332, 2124
Description: Sgl - Storeroom - Closer/stop

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 PS	EN	SA
3	Silencer - Metal Frame	608		RO

Set: 15.0
Doors: 2106, 2110, 2112, 2206, 2306, 3101, 3103, 3115, CH01, CH02, CH07
Description: Sgl - Storeroom - Closer/stop - DC

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 PS	EN	SA
3	Silencer - Metal Frame	608		RO
1	Position Switch	DPS-M-BK		SU

Set: 16.0
Doors: 1028, 2002
Description: Sgl - Storeroom - Closer/stop - DC

4	Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	70 8204 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 PS	EN	SA
3	Silencer - Metal Frame	608		RO
1	Position Switch	DPS-M-BK		SU

Set: 17.0
Doors: 1108, 1110, 1111, 1135, 1309
Description: Sgl - Office

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Office/Entry Lock	70 8205 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	W/F Stop	406 / 441CU	US26D	RO
1	Silencer - Metal Frame	608		RO

Set: 18.0
Doors: 1207
Description: Sgl - Classroom - Closer

4	Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Lock	70 8237 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO

Set: 19.0
Doors: 1113
Description: Sgl - Passage - Closer - OH stop

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 LNP	US26D	SA
1	Surf Overhead Stop	10-X36	630	RF
1	Surface Closer	281 O/P9	EN	SA
3	Silencer - Metal Frame	608		RO

Set: 20.0
Doors: 1131, 1132, 1133, 1136, 1140
Description: Sgl - Passage

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 LNP	US26D	SA
1	W/F Stop	406 / 441CU	US26D	RO
1	Gasketing Sgl	S88BL		PE

Set: 21.0
Doors: 1139, 1402, 1403, 2019, 2020, 2021, 2025
Description: Sgl - Passage - OH Stop

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 LNP	US26D	SA
1	Surf Overhead Stop	9-X36	630	RF
1	Gasketing Sgl	S88BL		PE

Set: 22.0

Doors: 1012, 1114, 1115, 1209, 1306, 2004, 2105, 2205, 2305
Description: Sgl - Keyed Lock - Closer

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Institutional Privacy Lock	70 8257 LNP	US26D	SA
1	Cylinder/core	As required	626	BE
1	Surface Closer	281 O/P9	EN	SA
1	W/F Stop	406 / 441CU	US26D	RO
1	Gasketing Sgl	S88BL		PE

Set: 23.0
Doors: 1312, 1315
Description: Sgl - Privacy

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock	8265 LNP	US26D	SA
1	W/F Stop	406 / 441CU	US26D	RO
1	Gasketing Sgl	S88BL		PE

Set: 24.0
Doors: 1017, 1018, 1019, 1127, 1128, 1137, 1138, 1210A, 1210B, 1210C, 1210D, 1211A, 1211B, 1211C, 1211D, 1304A, 1304B, 1304C, 1304D, 1305A, 1305B, 1305C, 1305D, 1331C, 1331D, 1331E, 1331F, 1333C, 1333D, 1333E, 1333F
Description: Sgl - Sp Hinge - Privacy

2	Hinge, Spring	1552 4-1/2" x 4-1/2"	US32D	MK
1	Privacy Lock	8265 LNP	US26D	SA
3	Silencer - Metal Frame	608		RO

Set: 25.0
Doors: 1331A, 1333A
Description: Sgl - Push/Pull - Closer - KP

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Push Plate	70F	US32D	RO
1	Door Pull	108 Mtg-Type 1HD	US32D	RO
1	Surface Closer	281 O/P9	EN	SA
1	Kick Plate	K1050 10" 4BE CSK	US32D	RO
1	W/F Stop	406 / 441CU	US26D	RO
3	Silencer - Metal Frame	608		RO

Set: 26.0
Doors: 1001A, 1001B
Description: All Hardware by Dr provider

1	All Hardware by door manufacturer.	00

END OF SECTION 087100

SECTION 10 00 00 MISCELLANEOUS SPECIALTIES*[AD 2]

PART 1 GENERAL

1.1 SUMMARY

A. Provide items as outlined below. Scope of Work includes blocking as specified in Section 06 10 00.

1.2 QUALITY ASSURANCE

A. Use adequate number of skilled workmen who are trained and experienced in the necessary crafts and who are completely familiar with the requirements and the methods needed for proper installation of the work of this Section.

1.3 PRODUCT HANDLING

A. Protection: Use all means necessary to protect the Owner furnished items before, during and after installation.

1.4 QUALITY ASSURANCE

A. Meeting ASTM-E84 Class I rating.

PART 2 PRODUCTS

2.1 CG - CORNERGUARDS: Full height with closure caps where appropriate, Start at top of base.
A. Surface-mounted: Construction Specialties SSM-20N Acrovyn, color as noted on finish schedule.
B. Provide 2% maintenance stock for all types of cornerguards utilized on this project.

2.2 CRASH RAILS: Model SCR-48N with PVC-free Acrovyn 3000; 6” high with end caps; refer to drawings for double rail installation detail and mounting heights. Coordinate end caps at light switches, thermostats, corner guards, and other mounted equipment, etc.; color as scheduled. [Construction Specialties; www.c-sgroup.com]

2.3 BLINDS: Hunter Douglas, Model Modern Precious Metals, aluminum blinds with cordless SimpleLift operating system. Bottom hold down bracket and tilt rod.

2.4 KNOX BOX – Provide and install a Knox Company, Newport Beach, CA Model 3200 Knox switch or Knox Pad Lock at site entry gates per Fire Marshal direction. Provide 3200 Knox Box recessed into exterior face of building per City direction at the fire riser room. Additionally, provide Knox elevator box at level 1 of each elevator with firefighter control keys and elevator emergency door keys.

2.5 ROOF CABLE ENTRY SYSTEM- Tessco Technologies SSM Quickport system; 24 hole Model QWKPPT with 12 holes and a grounding bar on two sides; with 12 port entry feed throughs, and 12 half inch inserts. 28”H x 35”l x 23”w. https://www.tessco.com/products/displayProductInfo.do?sku=48067

2.6 SPLASH BLOCKS: Provide precast concrete splash blocks at all overflow and roof drain downspouts and scupper locations that empty onto landscaping [unpaved areas] or roofing. 16” x 36”.

2.7 EQ 360 “Z” LOCKER: Bradley www.bradleycorp.com Lenoxzlocker Lenox “Z” Locker, solid plastic. Size as indicated in drawing scheduled. Provide padlock hasps, 4” high lenoxbase, number plates, wall hooks, and lenoxfiller filler ends.

2.8 EQ-614: EYEWASH AND BODY SHOWER: Bradley [Menomonee Falls, WI 800-272-3539, [www.bradleycorp.com] Model S19-310AC, complies with ANSI/ISEA Standard Z358.1, Galvanized Steel Protected with Safety Yellow Coating, construction with all stainless steel fittings. Drench shower to exceed 20 GPM, Eye/Face wash to exceed 3 GPM.

2.9 *AD 2 EQ 1217-4 PNEUMATIC TUBE SYSTEM: Eagle Pneumatic, Inc. Model: Mark II. Provide a complete system for a 4" tube system connecting 3 stations. Manufacture from heavy steel for durability. Pressure vacume system includes two systems, 4" powered end stations, two in Property Storage room, Two non-powered in Records/Bond Office room, and Booking room to have one intermediate station. System design to be reviewed by owner and architect. For system information contact: Patrick Evans at 863.644.4870x223 at sales@ http://eaglepneumatic.com. Carrier to be compatible with system type. Carrier selection to be made by architect and owner from full product line of PTS system available options. Provide one carrier per tube connection. Provide one carrier as attic stock.

2.10 EQ-1231-1016: DEAL TRAY – C.R. Laurence Co., Inc. Standard Drop-In Deal Tray, Model # CTD08, 8" wide x 10" deep x 1 3/4" h; flush drop-in design with 16ga stainless steel, #3 satin brushed finish. [www.crlaurence.com] or by Armortex

2.11 EQ-1241: DEAL DRAWER – C. R. Laurence Standard High Brushed Stainless Steel Deal Drawer, Model #DD1616; 15-3/4" wide x 22-1/4" deep x 4-15/16" h; flush drop-in design. [www.crlaurence.com]

2.12 EQ-1262: PASS-THRU HOPPER – C. R. Laurence Co., Inc. Brushed Stainless Thru-Wall Pass-Thru Hopper, Model # H0P1611TW; 18" wide x 9" deep x 12" h. [www.crlaurence.com]

2.13 EQ-1541, 1542 and 1543 - FIRE EXTINGUISHERS AND CABINETS – J.L. Industries , Larsen, or Potter Roemer. Extinguisher to be 10 pound ABC, UL-4A-60BC, Larsen MP10; wall bracket B2 at locations noted "1541"; semi recessed cabinet 2409-R4 with recessed handle and die cut lettering at "1542", cabinets to solid doors. At locations noted "1542D" provide semi-recessed detention cabinet, DEC 2409-R4. Mount cabinet so extinguisher is not taller than 48" AFF, with a projecting sign (Larson PTD-182 or equal) above. Provide at locations shown on drawings and min. at all electric rooms and elevator equipment rooms. If not shown on drawings provide min. 1 for each 3000 square feet of gross building space. At Data Room(s) provide a Type FE-36 extinguisher and wall bracket.

2.14 EQ-1561: FIRE HOSE CABINET – Detention Cabinet shall be Model No.DC-1810 as manufactured by Potter Roemer Fire Pro, City of Industry, CA 800-366-FIRE. Wall mounting to be recessed. Door to be flush solid metal with security lock. Install the cabinet plumb and level where indicated on the drawings, at heights acceptable to the authority having jurisdiction and ADA compliant. Verify class of cabinet and type with Fire Marshal and TCJS.

2.15 EQ-2233-A: CONVEYOR 1: PROPERTY STORAGE ROOM – White Conveyors, Inc. Model Number: JND-408-U3. Up and Down, double tier conveyor equipped with 3 slot steel frames measuring 12 inches in length. Double aluminum yoke chain assemblies rated at 60 pounds capacity per foot. Equipped with (2) 2HP caterpillar drive units with inverter drive controls pre wired for 208V/3PH/60HZ. Conveyor is equipped with an arm mounted 600 series keyboard and an arm mounted 601 hand switch. Conveyor painted surfaces are gloss black and equipped with 8 tooth sprockets. Conveyor capacity is as follows; JND-408-U3; (408) frames x 3 slot x 2 tiers = 2,448 individual slots. Bags – 2,448 inmate property storage bags, Style: Duramesh Ultra featuring full mesh front and back panel with locking D ring zipper. Includes 3"x3" clear vinyl window on both sides of gusset.

2.16 EQ-2233-B: CONVEYOR 2: SECURE PROPERTY STORAGE ROOM – White Conveyors, Inc. Model Number: NDU-1240-U. Up and Down, double tier conveyor equipped with 10 slot steel frames measuring 12 inches in length. Single aluminum yoke chain assemblies rated at 30 pounds capacity per foot. Equipped with 1HP direct drive unit with inverter drive controls pre wired for 208V/3PH/60HZ. Conveyor is equipped with an arm mounted 600 series keyboard and an arm mounted 601 hand switch. Conveyor painted surfaces are gloss black and equipped with 6 tooth sprockets. Conveyor capacity is as follows; NDU-1240-U; (124) frames x 10 slot x 2 tiers = 2,480 individual slots. Bags – 2,448 12" locking canvas zipper bags with D ring.

2.17 EQ-2432: WORK TABLE WITH SINK – Regency. Model Number 600STCB3096L/R. Durable 16 gauge type 304 stainless steel top, 20 gauge, 304 series stainless steel cross braces, a 12" deep stainless steel sink with a deck mounted faucet, 5" backsplash, stainless steel legs and sockets, adjustable bullet feet.

2.18 EQ-3321: RESIDENTIAL WASHER – Residential washing machine, General Electric Model Number WCVH6800JWW. [www.geappliances.com]

2.19 EQ-3331: RESIDENTIAL DRYER – Residential Dryer, General Electric Model Number DCVH680EJWW. [www.geappliances.com]

2.20 EQ-3515: SIDE BY SIDE REFRIGERATOR – Refrigerator, General Electric Model Number PFS22MIWWW. [www.geappliances.com]

2.21 EQ-4221: BASKETBALL BACKBOARD AND RIM: By Draper or Porter; stationary, powder coated steel, fixed height at 12’ AFF, fan- shaped backboard 54”W x 35” with pre- drilled holes for flush mount to wall; with complete goal mounting assembly; fixed ring/ rim; cotton net.

2.22 EQ-5423: ELECTRONIC KEY CABINET: By Real Time Networks; 2 module cabinet for 40 key capacity with 32 module and 8 module. 16 ga. Powder-coated stainless steel with 0.06” thick housing and 0.10” thick lock door without window. Authentication options for pin code, RFID, proximity card, biometric, IrisID, or smart phone. 110V power with battery backup for 24-48 hours.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install per manufacturer's recommendations.

B. All applications to be true and plumb.

END OF SECTION

SECTION 10 50 00 LOCKERS * AD2

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Furnish all labor, materials, services and equipment required in conjunction with or properly incidental to the installation of lockers, benches and storage cubicles as described herein.

1.02 SUBMITTALS

A. Product Data: Submit manufacturer's technical data and installation instructions for locker units.

B. Samples: Submit color samples on squares of same substrate and finish materials to be used for fabrication of lockers.

C. Shop Drawings: Submit shop drawings for lockers, verifying dimensions affecting locker installations. Show lockers in detail, a method of installation, fillers, trim, base, and accessories. Include locker numbering sequence information.

D. Warranty: Executed copies of manufacturer’s standard warranties.
1. Phenolic lockers: Minimum 10 year material, 2-year workmanship/labor.

1.03 JOB CONDITIONS

A. Do not deliver lockers until the building is enclosed and temperature and humidity controlled.

B. Protect from damage during delivery, handling, storage, and installation.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Phenolic/ HPDE
1. Summit
2. Columbia
3. ASI

4. Bradley Lenox
5. Tufftec

2.02 MATERIALS AT Z STYLE LOCKERS

A. Phenolic Composite Components
1. Decorative papers impregnated with melamine resin on faces and integrally compression molded with a core consisting of solid phenolic impregnated kraft papers utilizing a proprietary process.
2. UV-stabilized finish (specification basis is Trespa Meteon material); or lesser quality HDPE.
3. Colors and patterns as selected from manufacturer's full line of colors.

B. Stainless Steel: ASTM A 167, Type 304 or 316

C. Locker Body and Doors: Locker side panels of 3/8” thick solid phenolic composite panels with the rough matte finish. All shelves, tops and bottoms made of ½” thick solid phenolic, and have dual ventilation slots. Backs of min. 3/8” thick solid phenolic. Doors shall be min. ½” thick; Z profile. Lockers designed to be water resistant and rustproof inside and out.

1. Provide a secure, but well ventilated door face for maximum air flow.
2. Venting shall occur at door face only; not between lockers; designed to take advantage of natural air convection. Provide maximum ventilation possible within manufacturer's full line of options.

2.03 MATERIALS AT SOLID PHENOLIC/HPDE LOCKERS

A. Phenolic Composite Components
   1. Decorative papers impregnated with melamine resin on faces and integrally compression molded with a core consisting of solid phenolic impregnated kraft papers utilizing a proprietary process; or HPDE.
   2. UV-stabilized finish (specification basis is Trespa Meteon material).
   3. Colors and patterns as selected from manufacturer's full line of colors.

B. Stainless Steel: ASTM A 167, Type 304 or 316

C. Locker Body and Doors: Locker side panels of 3/8" [10mm] thick solid composite panels with the rough matte finish. All shelves, tops and bottoms made of ½" thick solid phenolic, and have dual ventilation slots. Backs of min. ¼" thick solid phenolic. Lockers designed to be water resistant and rustproof inside and out. Provide a secure, but well ventilated door face for maximum air flow.
   1. Venting shall occur at door face only; not between lockers; designed to take advantage of natural air convection. Provide maximum ventilation possible within manufacturer's full line of options.

D. Locking System: Hasp prepared for a padlock.

E. Accessories: top hook and two side wall hooks. Provide end and filler panels [including exposed backs] of ½" solid material with the same construction as the locker body.

F. Height: 71 ¾"

G. Locker Identification: Inlaid solid stainless steel disc.

H. Base: ¾" solid material, 4" high, U.N.O.

2.04 ACCESSIBILITY

A. At each locker area provide at least one accessible locker and a minimum of 5% of each type utilized.
   1. Lockers shall be located where they have a clear floor space in front of the accessible locker(s) at least 30 inches wide by 48" deep.
   2. The locker shall be modified to have the bottom of the locker no lower than 9" AFF and with shelves no higher than 48" AFF at shallow lockers and 54" AFF at lockers 12" deep.
   3. Provide a tactile accessibility sign.
   4. The operation of the door shall be by lever type handle with padlock locking capability.

2.05 LOCKERS AND BENCHES

A. EQ-346-3 DUTY LOCKER: Penco Products, Inc, Metal Three Tier Vanguard Locker, [www.pencoproducts.com]

B. EQ-360: Lenox "Z" Locker - Solid Plastic, LENOXZLOCKER. [Bradley; www.bradleycorp.com]

C. EQ-394-A: FLOOR MOUNTED ALUMINUM LOCKER BENCH WITH WOOD TOP - 5784, 1-piece units of Accoya Radiata Pine, acetylated; Grade A2, minimum 9-1/2 inches wide by 1-1/4 inches thick, with rounded corners and edges. [Lyon; www.lyonworkspace.com]
   1. Provide one coat of clear sealer on all surfaces, and one coat of clear lacquer on top and sides.
   2. 48" L x 9-1/2" W x 16-5/8" H; or lengths as shown on drawings.
   3. Tuffec solid HDPE benchtop material is an accepted substitution.

B. Fixed Pedestals: Manufacturer's standard supports, with predrilled fastener holes for attaching bench top and anchoring to the floor, complete with fasteners and anchors, and as follows:
   1. Cast Iron: 1-1/2-inch-diameter steel tubing threaded on both ends, with standard pipe flange at the top and bell-shaped cast-iron base; with baked-enamel or powder-coat finish; anchored with exposed fasteners.
   2. 17" Black anodized aluminum pedestal with welded aluminum flanges.
   3. Color: Match lockers when installed in locker rooms.

PART 3 – EXECUTION

3.01 PREPARATION

A. Field Measurements
   1. Take field measurements prior to preparation of shop drawings and fabrication of special components, when possible, to ensure proper fitting of work.
   2. Allow for adjustment and fitting of trim and filler panels wherever taking of field measurements before fabrication might delay work.

3.02 INSTALLATION

A. Install lockers at locations shown in accordance with manufacturer's instructions for plumb, level, rigid, and flush installation.

B. Space fastenings as recommended by the manufacturer, and apply through back-up reinforcing plates where necessary to avoid distortion; conceal fasteners insofar as possible.

C. Install trim, base, and filler panels where indicated using concealed fasteners to provide a flush, hairline joints against adjacent surfaces.

3.03 ADJUST AND CLEAN

A. Adjust doors and latches to operate easily without binding.

B. Verify that integral locking devices are operating properly.

C. Touch-up marred finishes, replace units which cannot be restored to factory-finished appearance.

D. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION

SECTION 14 24 47 HYDRAULIC ELEVATORS *AD 2

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes Hydraulic passenger elevators as shown and specified. Elevator work includes:
   1. Standard pre-engineered hydraulic passenger elevators; drilled shaft type
   2. Elevator car enclosures, hoistway entrances and signal equipment.
   3. Jack(s).
   4. Operation and control systems.
   5. Accessibility provisions for physically disabled persons.
   6. Equipment, machines, controls, systems and devices as required for safely operating the specified elevators at their rated speed and capacity.
   7. Materials and accessories as required to complete the elevator installation.

B. Related Sections:
   1. Division 3 Concrete: Installing inserts, sleeves and anchors in concrete.
   2. Division 4 Masonry: Installing inserts, sleeves and anchors in masonry.
   3. Division 5 Metals:
      a. Providing hoist beams, pit ladders, steel framing, auxiliary support steel and divider beams for supporting guide rail brackets.
      b. Providing steel angle sill supports and grouting hoistway entrance sills and frames.
   4. Division 9 Finishes: Providing elevator car finish flooring and field painting unfinished and shop primed ferrous materials.
   5. Division 11.
   6. Division 22 Plumbing:
      a. Sump pit and oil interceptor.
   7. 6. Division 23: Heating and Ventilation:
      a. Heating and ventilating hoistways.
   8. Division 26 Sections:
      a. Providing electrical service to elevators. (note: fused disconnect switch to be provided as part of elevator manufacture product, see section 2.11 Miscellaneous elevator components for further details.)
      b. Emergency power supply, transfer switch and auxiliary contacts.
      c. Heat and smoke sensing devices.
      d. Convenience outlets and illumination in hoistway and pit.
      e. Emergency power indicator light/ system
   9. Division 28.

C. Work Not Included: General contractor shall provide the following in accordance with the requirements of the Model Building Code and ANSI A17.1 Code. For specific rules, refer to ANSI A17.1, Section 300 for hydraulic elevators. State or local requirements must be used if more stringent.
   1. Elevator hoist beams to be provided at top of elevator shaft. Beam must be able to accommodate proper loads and clearances for elevator installation and operation.
   2. Supply in ample time for installation by other trades, inserts, anchors, bearing plates, brackets, supports and bracing including all setting templates and diagrams for placement.
   3. Hatch walls require a minimum two hours of fire rating. Hoistway should be clear and plumb with variations not to exceed 1/2" at any point.
   4. Elevator hoistways shall have barricades, as required.
   5. Install bevel guards at 75° on all recesses, projections or setbacks over 2" (4" for A17.1 2000 areas) except for loading or unloading.
   6. Provide rail bracket supports at the pit, each floor and roof. For guide rail bracket supports, provide divider beams between hoistway at each floor and roof.
   7. Pit floor shall be level and free of debris. Reinforce dry pit to sustain normal vertical forces from rails and buffers.
   8. Where pit access is by means of the lowest hoistway entrance, a vertical ladder of non-combustible material extending 42" minimum, (48" minimum for A17.1-2000 areas) shall be provided at the same

height, above the sill of access door or handgrips.
9. All wire and conduit should run remotely from the hoistways.
10. When heat, smoke or combustion sensing devices are required, connect to elevator control cabinet terminals. Contacts on the sensors should be sided for 12 volts D.C.
11. Install and furnish finished flooring in the elevator cab.
12. Finished floors and entrance walls are not to be constructed until after sills and door frames are in place. Consult elevator contractor for rough opening size. The general contractor shall supply the drywall framing so that the wall fire resistance rating is maintained when drywall construction is used.
13. Where sheet rock or drywall construction is used for front walls, it shall be of sufficient strength to maintain the doors in true lateral alignment. Drywall contractor to coordinate with elevator contractor.
14. Before the erection of rough walls and doors; erect hoistway sills, headers, and frames. After rough walls are finished; erect fascias and toe guards. Set sill level and slightly above finished floor at landings.
15. To maintain legal fire rating (masonry construction), door frames are to be anchored to walls and properly grouted in place.
16. The elevator wall shall interface with the hoistway entrance assembly and be in strict compliance with the elevator contractor's requirements.
17. General Contractor shall fill and grout around entrances, as required.
18. All walls and sill supports must be plumb where openings occur.
19. Locate a light fixture (200 lx / 19 fc) and convenience outlet in the pit with a switch located adjacent to the access door.
20. Provide telephone line, light fixture (200 lx / 19 fc), and convenience outlet in the hoistway at the landing where the elevator controller is located. Typically, this will be at the landing above the 1st floor. The final location must be coordinated with elevator contractor.
21. As indicated by elevator contractor, provide a light outlet for each elevator, in the center of the hoistway.
22. For signal systems and power operated door: provide ground and branch wiring circuits.
23. For car light and fan: provide a feeder and branch wiring circuits to elevator control cabinet.
24. Controller landing wall thickness must be a minimum of 8 inches thick. This is due to the controller being mounted on the second-floor landing in the door frame on the return side of the door. For center opening doors, the controller is located on the right-hand frame (from inside the elevator cab looking out). These requirements must be coordinated between the general contractor and the elevator contractor.
25. Cutting, patching and recesses to accommodate hall button boxes, signal fixtures, etc.

1.02 SUBMITTALS

A. Product data: When requested, the elevator contractor will provide standard cab, entrance and signal fixture data to describe the product for approval.

B. Shop drawings:
1. Show equipment arrangement in the pit and hoistway. Provide plans, elevations, sections and details of assembly, erection, anchorage, and equipment location.
2. Indicate elevator system capacities, sizes, performances, safety features, finishes and other pertinent information.
3. Show floors served, travel distances, maximum loads imposed on the building structure at points of support and all similar considerations of the elevator work.
4. Indicate electrical power requirements and branch circuit protection device recommendations.

C. Powder Coat Paint selection: Submit manufacturer’s standard selection charts for exposed finishes and materials.

D. Plastic laminate selection: Submit manufacturer’s standard selection charts for exposed finishes and materials.

E. Metal Finishes: Upon request, standard metal samples provided.

F. Operation and maintenance data. Include the following:

1. Owner’s Manual and Wiring Diagrams.
2. Parts list, with recommended parts inventory.
3. All information needed to perform maintenance on this elevator.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: An approved manufacturer with minimum fifteen years’ experience in manufacturing, installing, and servicing commercial elevators.
   1. Must be the manufacturer of the power unit, controller, signal fixtures, door operators cab, entrances, and all other major parts of the elevator operating equipment.
      a. The major parts of the elevator equipment shall be manufactured in the United States, and not be an assembled system.
   2. The manufacturer shall have a documented, on-going quality assurance program.
   3. ISO-9001:2000 Manufacturer Certified
   4. ISO-14001:2004 Environmental Management System Certified

B. Installer Qualifications: The manufacturer or an authorized agent of the manufacturer with not less than fifteen years of satisfactory experience installing elevators equal in character and performance to the project elevators.

C. Regulatory Requirements:
   1. ASME/ANSI A17.1 Safety Code for Elevators and Escalators, latest edition or as required by the local building code.
   2. Building Code: National.
   3. NFPA 70 National Electrical Code.
   4. NFPA 80 Fire Doors and Windows.
   5. Americans with Disabilities Act Accessibility Guidelines (ADAAG).

D. Fire-rated Entrance Assemblies: Opening protective assemblies including frames, hardware, and operation shall comply with ASTM E2074, UL10(B), and NFPA 80. Provide entrance assembly units bearing Class B or 1 1/2-hour label by a Nationally Recognized Testing Laboratory (2-hour label in Canada).

E. Inspection and testing: Elevator Installer shall obtain and pay for all required inspections, tests, permits and fees for the elevator installation.
   1. Arrange for inspections and make required tests.
   2. Deliver to the Owner upon completion and acceptance of elevator work.

1.04 DELIVERY, STORAGE AND HANDLING

A. Manufacturing will deliver elevator materials, components and equipment and the contractor is responsible for providing secure and safe storage on the job site.

1.05 PROJECT CONDITIONS

A. Prohibited Use: Elevators shall not be used for temporary service or for any other purpose during the construction period before Substantial Completion and acceptance by the purchaser unless agreed upon by Elevator Contractor and General Contractor with signed the temporary agreement.

1.06 WARRANTY

A. Warranty: Submit elevator manufacturer's standard written warranty agreeing to repair, restore or replace defects in elevator work materials and workmanship not due to ordinary wear and tear or improper use or care for 12 months from the date of Substantial Completion.

1.07 MAINTENANCE

A. Furnish maintenance and call back service for a period of 3 months for each elevator from the date of Substantial Completion during normal working hours, excluding callbacks. Service shall consist of a periodic examination of the equipment, adjustment, lubrication, cleaning, supplies and parts to keep the elevators in proper operation.
   1. The manufacturer shall have a service office and full-time service personnel within a 60-mile radius of the project site.
   2. Provide 4 elevator door keys.

PART 2 – PRODUCTS

2.01 MANUFACTURERS, subject to the requirements stated herein;

A. Manufacturer: ThyssenKrupp Elevator [Basis of Design].

B. Otis.

2.02 MATERIALS, GENERAL

A. Colors, patterns, and finishes: As selected by the Architect from manufacturer's standard colors, patterns, and finish charts.

B. Steel and Stainless Steel:
   1. Shapes and bars: Carbon.
   2. Sheet: Cold-rolled steel sheet, commercial quality, Class 1, matte finish.
   3. Finish: Factory-applied powder coated for structural parts, and for architectural parts. Color selection must be based on elevator manufacture’s standard selections.

C. Flooring; not be elevator supplier, refer to the finish schedule.

2.03 HOISTWAY EQUIPMENT

A. Platform: Fabricated frame of formed or structural steel shapes, gusseted and rigidly welded with a wood subfloor. The underside of the platform shall be fireproofed. The car platform shall be designed and fabricated to support one-piece loads weighing up to 25% of the rated capacity.

B. Sling: Steel stiles affixed to a steel crosshead and bolstered with bracing members to remove strain from the car enclosure.

C. Guide Rails: Steel, omega shaped, fastened to the building structure with steel brackets.

D. Guide Shoes: Slide guides shall be mounted on top and bottom of the car.

E. Buffers: Provide substantial buffers in the elevator pit. Mount buffers on a steel template that is fastened to the pit floor. Provide extensions if required by project conditions.

F. Jack: Jack unit shall be of sufficient size to lift the gross load the height specified. Factory test jack to ensure adequate strength and freedom from leakage. Brittle material, such as gray cast iron, is prohibited in the jack construction. Provide the following jack type: Twin post holeless telescopic 3-stage. Jacks piped together, mounted one on each side of the car with each having telescopic sections designed to extend in a synchronized manner when oil is pumped into the assembly. Each jack section will be guided from within the casing or the plunger assembly used to house the section. Each plunger shall have a high-pressure sealing system which will not allow for seal movement or displacement during the course of operation. Each Jack Assembly shall have a check valve built into the assembly to allow for automatically re-syncing the two plunger sections by moving the jack to its fully contracted position. The jack shall be designed to be mounted on the pit floor or in a recess in the pit floor. Each jack section shall have a bleeder valve to discharge any air trapped in the

section. Provide a protective sleeve at any drilled shaft areas.

G. Automatic Self-Leveling: Provide each elevator car with a self-leveling feature to automatically bring the car to the landings and correct for over-travel or undertravel. Self-leveling shall, within its zone, be automatic and independent of the operating device. The car shall be maintained approximately level with the landing irrespective of its load.

H. Wiring, Piping, and Oil: Provide all necessary hoistway wiring in accordance with the National Electrical Code. All necessary code compliant pipe and fittings shall be provided to connect the power unit to the jack unit. Provide proper grade readily biodegradable oil as specified by the manufacturer of the power unit (see Power Unit section for further details).

I. Pit moisture/water sensor located approximately 1 foot above the pit floor to be provided. Once activated, the elevator will perform “flooded pit operation”, which will run the car up to the designated floor, cycle the doors and shut down and trip the circuit breaker shunt to remove 3 phase power from all equipment, including pit equipment.

J. Motorized oil line shut-off valve shall be provided that can be remotely operated from the controller landing service panel. Also, a means for manual operation at the valve in the pit is required.

2.04 POWER UNIT

A. Power Unit (Oil Pumping and Control Mechanism): A self-contained unit located in the elevator pit consisting of the following items:
   1. NEMA 4/Sealed Oil reservoir with tank cover including vapor removing tank breather
   2. An oil hydraulic pump.
   3. An electric motor.
   4. Electronic oil control valve with the following components built into the single housing; high-pressure relief valve, check valve, automatic unloading upstart valve, lowering and leveling valve, and electromagnetic controlling solenoids.

B. Pump: Positive displacement type pump specifically manufactured for oil-hydraulic elevator service. Pump shall be designed for steady discharge with minimum pulsation to give smooth and quiet operation. The output of pump shall not vary more than 10 percent between no load and full load on the elevator car.

C. Motor: Standard manufacture motor specifically designed for oil-hydraulic elevator service. Duty rating – motors shall be capable of 80 starts per hour with a 30% motor run time during each start.

D. Oil Control Unit: The following components shall be built into a single housing. Welded manifolds with separate valves to accomplish each function are not acceptable. Adjustments shall be accessible and be made without removing the assembly from the oil line.
   1. The relief valve shall be adjustable and be capable of bypassing the total oil flow without increasing back pressure more than 10 percent above that required to barely open the valve.
   2. Up start and stop valve shall be adjustable and designed to bypass oil flow during start and stop of the motor pump assembly. Valve shall close slowly, gradually diverting oil to or from the jack unit, ensuring smooth up starts and up stops.
   3. Check valve shall be designed to close quietly without permitting any perceptible reverse flow.
   4. Lowering valve and leveling valve shall be adjustable for down start speed, lowering speed, leveling speed and stopping speed to ensure smooth "down" starts and stops. The leveling valve shall be designed to level the car to the floor in the direction the car is traveling after slowdown is initiated.
   5. Provided with constant speed regulation in both up and down direction. Feature to compensate for load changes, oil temperature, and viscosity changes.

E. Solid State Starting: Provide an electronic starter featuring adjustable starting currents.

F. A secondary hydraulic power source (powered by 110VAC single phase) must be provided. This is required

to be able to raise (reposition) the elevator in the event of a system component failure (i.e. pump motor, starter, etc.)

G. Oil Type: Readily biodegradable that is USDA certified, bio-based product, ultra-low toxicity, readily biodegradable, energy efficient, high performing fluid made from canola oil with antioxidant, anticorrosive, antifoaming, and metal-passivating additives. Specially formulated for operating in environmentally sensitive areas. USDA certified the bio-based product, 95% bio-based content, per ASTM D6866.

2.05 HOISTWAY ENTRANCES

A. Doors and Frames: Provide complete hollow metal type hoistway entrances at each hoistway opening bolted\knock down construction.
   1. Manufacturer's standard entrance design consisting of hangers, doors, hanger supports, hanger covers, fascia plates, sight guards, and necessary hardware.
   2. Main landing door & frame finish: Stainless steel panels, no. 4 brushed finish.
   3. Typical door & frame finish: Stainless steel panels with no. 4 brushed finish.

B. Integrated Control System: the elevator controller to be mounted to hoistway entrance above 1st landing. The entrance at this level shall be designed to accommodate the control system and provide a means of access to critical electrical components and troubleshooting features. See section 2.09 Control System for additional requirements.

C. At the controller landing, the hoistway entrance frame shall have space to accommodate and provide a lockable means of access (group 2 security) to a 3-phase circuit breaker.

D. Interlocks: Equip each hoistway entrance with an approved type interlock tested as required by code. Provide door restriction devices as required by code.

E. Door Hanger and Tracks: Provide sheave type two-point suspension hangers and tracks for each hoistway horizontal sliding door.
   1. Sheaves: Polyurethane tires with ball bearings properly sealed to retain grease.
   2. Hangers: Provide an adjustable device beneath the track to limit the up-thrust of the doors during operation.
   3. Tracks: Drawn steel shapes, smooth surface and shaped to conform to the hanger sheaves.

F. Hoistway Sills: Extruded metal, with a groove(s) on the top surface. Provide mill finish aluminum.

2.06 CAR ENCLOSURE

A. Car:
   1. Walls: flat metal wall panels in 16 Ga. 5WL SS.
   2. Canopy: Cold-rolled steel with hinged exit.
   3. Ceiling: Suspended, with LED lights.
   4. Cab Fronts, Return, Transom, Soffit and Strike: Provide panels faced with brushed stainless steel.
   5. Doors: Horizontal sliding car doors reinforced with steel for panel rigidity. Hang doors on sheave type hangers with polyurethane tires that roll on a polished steel track and are guided at the bottom by non-metallic sliding guides. Fast opening; low maintenance type.
      a. Door Finish: Stainless steel panels: No. 4 brushed finish.
      b. Cab Sills: Extruded aluminum, mill finish.
   6. Handrail: Provide 2” flat bar on the side and rear walls. Handrails shall have a stainless steel, no. 4 brushed finish.
   7. Ventilation: Manufacturer’s standard exhaust fan, mounted on the car top.

B. Car Top Inspection: Provide a car top inspection station with an “Auto-Inspection” switch, an "emergency stop" switch, and constant pressure "up and down" direction and safety buttons to make the normal operating devices inoperative. The station will give the inspector complete control of the elevator. The car top inspection

station shall be mounted in the door operator assembly.

2.07 DOOR OPERATION

A. Door Operation: Provide a direct current motor driven heavy duty operator designed to operate the car and hoistway doors simultaneously. Door movements shall be electrically cushioned at both limits of travel and the door operating mechanism shall be arranged for manual operation in event of power failure. Doors shall automatically open when the car arrives at the landing and automatically close after an adjustable time interval or when the car is dispatched to another landing. Closed-loop, microprocessor controlled motor-driven linear door operator, with adjustable torque limits, also acceptable. AC controlled units with oil checks or other deviations are not acceptable.
   1. No Un-Necessary Door Operation: The car door shall open only if the car is stopping for a car or hall call, answering a car or hall call at the present position or selected as a dispatch car.
   2. Door Open Time Saver: If a car is stopping in response to a car call assignment only (no coincident hall call), the current door hold open time is changed to a shorter field programmable time when the electronic door protection device is activated.
   3. Double Door Operation: When a car stops at a landing with concurrent up and down hall calls, no car calls, and no other hall call assignments, the car door opens to answer the hall call in the direction of the car's current travel. If an onward car call is not registered before the door closes to within 6 inches of fully closed, the travel will reverse and the door will reopen to answer the other call.
   4. Nudging Operation: The doors shall remain open as long as the electronic detector senses the presence of a passenger or object in the door opening. If door closing is prevented for a field programmable time, a buzzer will sound. When the obstruction is removed, the door will begin to close at reduced speed. If the infra-red door protection system detects a person or object while closing on nudging, the doors will stop and resume closing only after the obstruction has been removed.
   5. Limited Door Reversal: If the doors are closing and the infra-red beam(s) is interrupted, the doors will reverse and reopen partially. After the obstruction is cleared, the doors will begin to close.
   6. Door Open Watchdog: If the doors are opening, but do not fully open after a field adjustable time, the doors will recycle closed then attempt to open six times to try and correct the fault.
   7. Door Close Watchdog: If the doors are closing, but do not fully close after a field adjustable time, the doors will recycle open then attempt to close six times to try and correct the fault.
   8. Door Close Assist: When the doors have failed to fully close and are in the recycle mode, the door drive motor shall have increased the torque applied to possibly overcome mechanical resistance or differential air pressure and allow the door to close.

B. Door Protection Devices: Provide a door protection system using 150 or more microprocessor controlled infra-red light beams. The beams shall project across the car opening detecting the presence of a passenger or object. If door movement is obstructed, the doors shall immediately reopen.

2.08 CAR OPERATING STATION

A. Car Operating Station, General: The main car control in each car shall contain the devices required for specific operation mounted in an integral swing return panel requiring no applied faceplate. Swing return shall have a brushed stainless steel finish. The main car operating panel shall be mounted in the return and comply with handicap requirements.
   Blue illuminated pushbuttons that using long lasting LED’s shall be included for each floor served, and emergency buttons and switches shall be provided per code. Switches for car light and accessories shall be provided.

B. Emergency Communications System: Integral phone system provided. Provide any required indicator lights for emergency power.

C. Auxiliary Operating Panel: Not Required

D. Column Mounted Car Riding Lantern: A car riding lantern shall be installed in the elevator cab and located in the entrance. The lantern, when illuminated, will indicate the intended direction of travel. The lantern will

illuminate and a signal will sound when the car arrives at a floor where it will stop. The lantern shall remain illuminated until the door(s) begin to close.

E. Special Equipment: Not Applicable

2.09 CONTROL SYSTEMS

A. Controller: Shall be integrated into a hoistway entrance jamb. Should be microprocessor based, software oriented and protected from environmental extremes and excessive vibrations in an NEMA 1 enclosure. Control of the elevator shall be automatic in operation by means of push buttons in the car numbered to correspond to floors served, for registering car stops, and by "up-down" push buttons at each intermediate landing and "call" push buttons at terminal landings.

B. Service Panel – to be located outside the hoistway in the controller entrance jamb and shall provide the following functionality/features:
   1. Access to main control board and CPU
   2. Main controller diagnostics
   3. The main controller fuses
   4. Universal Interface Tool (UIT)
   5. Remote valve adjustment
   6. Electronic motor starter adjustment and diagnostics
   7. Operation of pit motorized shut-off valve with LED feedback to the state of the valve in the pit
   8. Operation of auxiliary pump/motor (secondary hydraulic power source)
   9. Operation of electrically assisted manual lowering
   10. Provide male plug to supply 110VAC to the controller
   11. Run/Stop button

C. Automatic Light and Fan shut down: The control system shall evaluate the system activity and automatically turn off the cab lighting and ventilation fan during periods of inactivity. The settings shall be field programmable.

D. Special Operation: Not Applicable

E. Emergency Power Operation: (Battery Lowering 10-DOC) When the loss of normal power is detected, a battery lowering feature is to be activated. The elevator will lower to a predetermined level and open the doors. After passengers have exited the car, the doors will close and the car will shut-down. When normal power becomes available, the elevator will automatically resume operation. The battery lowering feature is included in the elevator contract and does not utilize a building supplied standby power source.

2.10 HALL STATIONS

A. Hall Stations, General: Provide buttons with blue-illuminating LED halos to indicate that a call has been registered at that floor for the indicated direction. Provide 1 set of pushbutton risers. Provide one pushbutton riser with faceplates having a brushed stainless steel finish.
   1. Phase 1 firefighter’s service key switch, with instructions, shall be incorporated into the hall station at the designated level.
   2. Vandal resistant.

B. Floor Identification Pads: Provide door jamb pads on each floor. Jamb pads shall comply with Americans with Disabilities Act (ADA) requirements.

C. Hall Position Indicator: Not Applicable

D. Hall Lanterns: Not Applicable

E. Special Equipment: Not Applicable

2.11 MISCELLANEOUS ELEVATOR COMPONENTS

A. Oil Hydraulic Silencer: Install multiple oil hydraulic silencers (muffler device) at the power unit location. The silencers shall contain pulsation absorbing material inserted in a blowout proof housing.

B. Lockable three phase circuit breakers with auxiliary contact with shunt trip capability to be provided. Circuit breaker to be located behind locked panel (Group 2 security access) at controller landing entrance jamb and should be sized according to the National Electrical Code.

C. Lockable single phase 110V circuit breaker for cab light and fan to be provided. Circuit breaker to be located behind locked panel (Group 2 security access) at controller landing entrance jamb should be sized according to the National Electrical Code.

D. Additional cabling for elevator camera, intercom and detention locking panel interface.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Before starting elevator installation, inspect hoistway, hoistway openings, pits and control space, as constructed and verify all critical dimensions, and examine supporting structures and all other conditions under which elevator work is to be installed. Do not proceed with elevator installation until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

B. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

3.02 INSTALLATION

A. Install elevator systems components and coordinate installation of hoistway wall construction.
   1. Work shall be performed by competent elevator installation personnel in accordance with ASME A17.1, manufacturer's installation instructions and approved shop drawings.
   2. Comply with the National Electrical Code for electrical work required during installation.

B. Coordination: Coordinate elevator work with the work of other trades, for proper time and sequence to avoid construction delays. Use benchmarks, lines, and levels designated by the Contractor, to ensure dimensional coordination of the work.

C. Alignment: Coordinate installation of hoistway entrances with the installation of elevator guide rails for accurate alignment of entrances with cars. Where possible, delay final adjustment of sills and doors until the car is operable in the shaft. Reduce clearances to minimum safe, workable dimensions at each landing.

D. Lubricate operating parts of the system where recommended by the manufacturer.

3.03 FIELD QUALITY CONTROL

A. Acceptance testing: Upon completion of the elevator installation and before permitting the use of the elevator, perform acceptance tests as required by A17.1 Code and local authorities having jurisdiction. Perform other tests, if any, as required by governing regulations or agencies.

B. Advise Owner, Contractor, Architect, and governing authorities in advance of dates and times tests are to be performed on the elevator.

3.04 ADJUSTING

A. Make necessary adjustments to operating devices and equipment to ensure elevator operates smoothly and accurately.

3.05 CLEANING

A. Before final acceptance, remove protection from finished surfaces and clean and polish surfaces in accordance with manufacturer's recommendations for the type of material and finish provided. Stainless stall shall be cleaned with soap and water and dried with a non-abrasive surface; shall not be cleaned with bleached-based cleansers.

B. At the completion of elevator work, remove tools, equipment, and surplus materials from the site. Clean equipment rooms and hoistway. Remove trash and debris.

3.06 PROTECTION

A. At the time of Substantial Completion of elevator work, or portion thereof, provide suitable protective coverings, barriers, devices, signs, or other such methods or procedures to protect elevator work from damage or deterioration. Maintain protective measures throughout the remainder of construction period.

3.07 DEMONSTRATION

A. Instruct Owner's personnel in proper use, operations, and daily maintenance of elevators. Review emergency provisions, including emergency access and procedures to be followed at the time of failure in operation and other building emergencies. Train Owner's personnel in normal procedures to be followed in checking for sources of operational failures or malfunctions.

B. Make a final check of each elevator operation, with Owner's personnel present, immediately before the date of substantial completion. Determine that control systems and operating devices are functioning properly.

3.08 ELEVATOR SCHEDULE

A. Elevator Qty. 1
   1. Elevator Model: Hydraulic with shaft
   2. Rated Capacity: 4500 lbs.
   3. *AD 2 Rated Speed: 125 ft./min. up and down
   4. Operation System: TAC32
   5. Travel: refer to drawings
   6. Landings: 2 total
   7. Openings:
      a. Front: 2
      b. Rear: 0
   8. Clear Car Inside: 5’-8”wide x 7’- 9½” deep
   9. Cab Height: 7'-4" nominal
   10. Hoistway Entrance Size: 4'-0" wide x 7'-0" high
   11. Door Type: Single Speed, side opening
   12. Power Characteristics: as listed on electrical drawings.
   13. Seismic Requirements: Zone 2
   14. Walls: Raised 5WL stainless steel
   15. Flooring: not in this section’s scope, but coordinate thickness with the finish schedule.

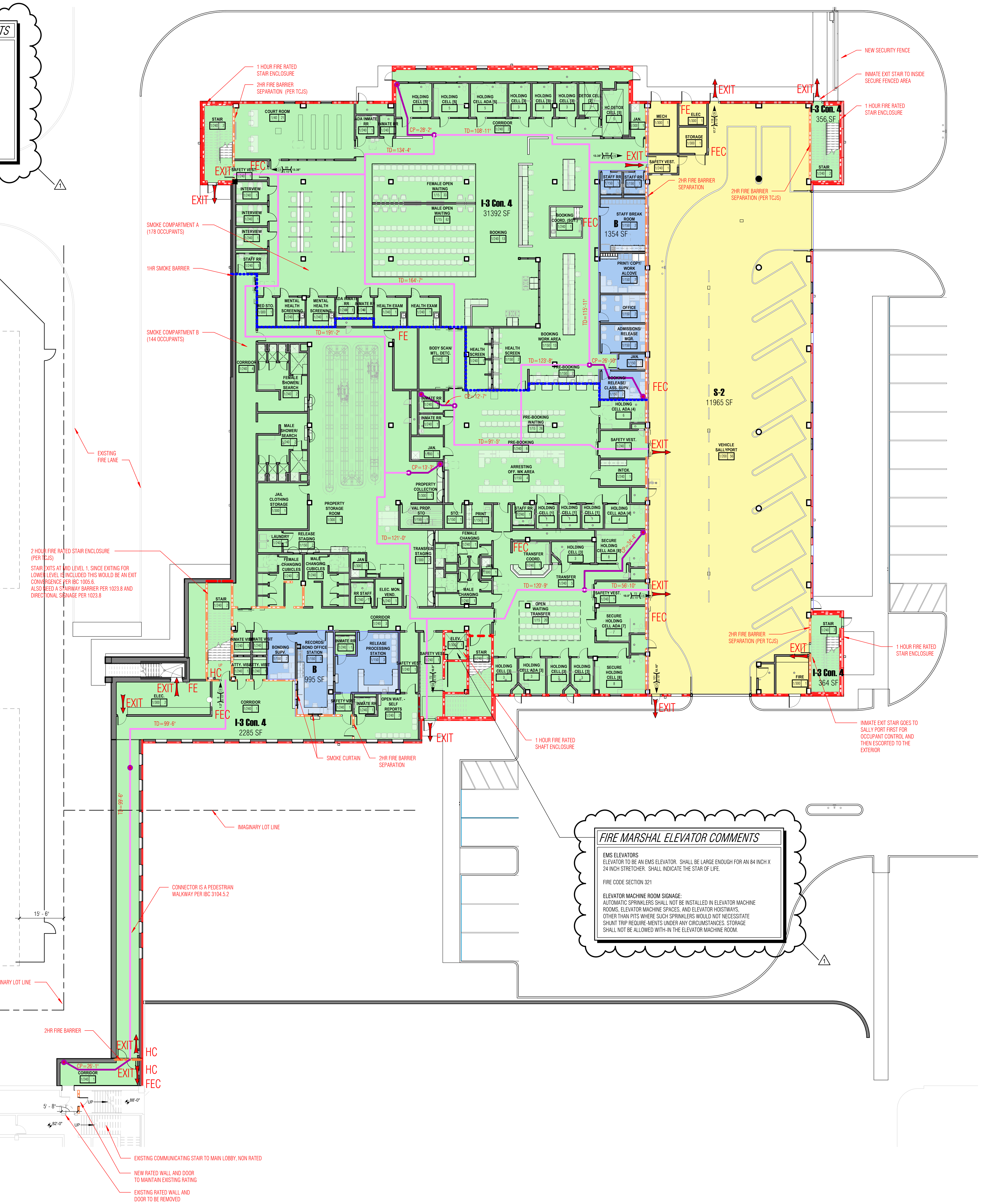
END OF SECTION

FM: FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET. SEE SPECIFICATION 10 00 00 AND EQUIPMENT SCHEDULE ON A821.



FIRE MARSHAL ELEVATOR COMMENTS

EMS ELEVATORS
ELEVATOR TO BE AN EMS ELEVATOR. SHALL BE LARGE ENOUGH FOR AN 84 INCH X 24 INCH STRETCHER. SHALL INDICATE THE STAR OF LIFE.

FIRE CODE SECTION 321

ELEVATOR MACHINE ROOM SIGNAGE:
AUTOMATIC SPRINKLERS SHALL NOT BE INSTALLED IN ELEVATOR MACHINE ROOMS, ELEVATOR MACHINE SPACES, AND ELEVATOR HOISTWAYS, OTHER THAN PITS WHERE SUCH SPRINKLERS WOULD NOT NECESSITATE SHUNT TRIP REQUIRE-MENTS UNDER ANY CIRCUMSTANCES. STORAGE SHALL NOT BE ALLOWED WITH-IN THE ELEVATOR MACHINE ROOM.

1 LOWER LEVEL - CODE PLAN
SCALE: 1/16" = 1'-0"
NORTH

PROJECT INFORMATION

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE,
MCKINNEY, TX 75071

TWO STORY BUILDING HOUSING OFFICES AND HOLDING FACILITY WITH SURFACE PARKING. THE EXTERIOR DESIGN OF THE BUILDING IS A MIXTURE OF BRICK AND CONCRETE PANEL WITH E-COATED GLAZING.

ADOPTED BUILDING CODES*

2018 INTERNATIONAL BUILDING CODE (COMMERCIAL)
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FUEL & GAS CODE
2012 TEXAS ACCESSIBILITY STANDARDS
TEXAS ADMINISTRATIVE CODE, TITLE 37 PUBLIC SAFETY AND CORRECTIONS, PART 9 TEXAS COMMISSION ON JAIL STANDARDS (TCJS)

*ALL CODES REQUIREMENTS TO INCLUDE LOCAL AMMENDMENTS

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY TYPE	I-3, COND. 4, S-2, B
CONSTRUCTION TYPE	II-A

*REFERENCE CODE PLAN FOR ADDITIONAL INFORMATION

GROSS BUILDING AREA

LOWER LEVEL	48,711 SF
LEVEL 1	36,047 SF
LEVEL 1 ALTERNATE	2,242 SF
TIER LEVEL	10,007 SF
TOTAL	**97,189 SF**

CODE PLAN LEGEND

THIS DRAWING IS BEST VIEWED/PRINTED IN COLOR. IF PRINTED IN BLACK AND WHITE, IT SHOULD BE PRINTED SO THAT THE GRADIENT COLORS SHOW (PHOTO OR GRADIENT PRINTING)

WALL TYPES
SMOKE BARRIER 1HR
FIRE BARRIER 1HR
FIRE BARRIER 2HR

EGRESS PATHS
COMMON PATH
AT GROUP S: 100' MAX
AT GROUP I-3: 100' MAX
EXIT ACCESS TRAVEL
AT GROUP S-2: 400' MAX
AT GROUP I-3: 200' MAX
DEAD END CORRIDOR
AT GROUP S-2: 20' MAX
AT GROUP I-3: 50' MAX

CODE SYMBOLS
EXIT — EXIT NOTATION
DIAGONAL DIMENSION
EXIT SEPARATION
HC — HOSE CABINET
FE — FIRE EXTINGUISHER
FEC — FIRE EXTINGUISHER CABINET - RECESSED

ROOM TAG
CORRIDOR 1/100 11 — ROOM NAME; NUMBER OF OCCUPANTS; OCCUPANT/SF RATIO

TYPICAL COMPONENT W/ SPRINKLER TAG
EGRESS TYPE
NUMBER OF OCCUPANTS
REQUIRED WIDTH OF EGRESS
EGRESS WIDTH FACTOR
DIRECTION OF EGRESS (SOLID FOR TYP. EGRESS, OUTLINE FOR STAIR)

STAIR W/ SPRINKLER TAG
EGRESS TYPE
NUMBER OF OCCUPANTS
INDICATES OCCUPANTS FROM ABOVE
REQUIRED WIDTH OF EGRESS
EGRESS WIDTH FACTOR
DIRECTION OF EGRESS
INDICATES OCCUPANTS FROM BELOW
INDICATES OCCUPANTS COMBINED FROM ABOVE AND BELOW

ADDITIONAL CODE INFORMATION

OCCUPANCY LEGEND

DETENTION CENTER: I-3, COND. 4
PARKING: S-2
OFFICE: B

AUTOMATIC SPRINKLER SYSTEM

BUILDING WILL BE FULLY EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM

FIRE RESISTANCE REQUIREMENTS: II-A

BUILDING ELEMENT	RATING	UL BASIS OF DESIGN
STRUCTURAL FRAME	- 1 HR: PER IBC TABLE 601	IBC 722.2.4
BEARING WALLS (EXTERIOR)	- 1 HR: PER IBC TABLE 601	UL U906
BEARING WALLS (INTERIOR)	- 1 HR: PER IBC TABLE 601	UL U906
NONBEARING WALLS (INTERIOR)	- 0 HR: PER IBC TABLE 601	
FLOOR CONSTRUCTION	- 1 HR: PER IBC TABLE 601	UL K913 / IBC 722.2.2.1
ROOF CONSTRUCTION	- 1 HR: PER IBC TABLE 601	UL P701

WINDOW PROTECTION NOT REQUIRED PER 2018 IBC 705.8

NUMBER OF EXITS REQUIRED AND PROVIDED BY FLOOR (PER IBC TABLE 1006.3.1)

LEVEL	REQUIRED	PROVIDED	STATUS
LOWER LEVEL	2	6	[OK]
LEVEL 1	2	7	[OK]
TIER LEVEL	2	3	[OK]

ALLOWABLE HEIGHT

MAXIMUM HEIGHT: 85' FEET ABOVE GRADE (PER IBC TABLE 504.3)
PROPOSED BUILDING: 45'-4" [OK]

MAXIMUM NUMBER OF STORIES: 3 (PER IBC TABLE 504.4)
PROPOSED BUILDING: 3 [OK]

ALLOWABLE AREA

MULTI-OCCUPANCY, MULTI-STORY BUILDING PER IBC 506.2.4

'I-3' INCREASE	'S-2' INCREASE	'B' INCREASE
$A_a = [A_t + (NS * I_f)]$	$A_a = [A_t + (NS * I_f)]$	$A_a = [A_t + (NS * I_f)]$
$A_a = [45{,}000 + (15{,}000 * 0.75)]$	$A_a = [117{,}000 + (39{,}000 * 0.75)]$	$A_a = [112{,}500 + (37{,}500 * 0.75)]$
$A_a = [45{,}000 + (11{,}250)]$	$A_a = [117{,}000 + (29{,}250)]$	$A_a = [117{,}000 + (28{,}125)]$
$A_a =$ 56,250 SF ALLOWED	$A_a =$ 146,250 SF ALLOWED	$A_a =$ 145,125 SF ALLOWED

ALLOWABLE AREA

LOWER LEVEL:
I-3 = 34,397 / 56,250 = 0.61
S-2 = 11,965 / 146,250 = 0.08
B = 2,349 / 145,125 = 0.02
TOTAL = 0.71 < 1.0 [OK]

LEVEL 1:
I-3 = 38,471 / 56,250 = 0.68 < 1.0 [OK]

TIER LEVEL:
I-3 = 10,007 / 56,250 = 0.18 < 1.0 [OK]

ENERGY CODE

CLIMATE ZONE: 3A

ROOF - INSULATION ENTIRELY ABOVE DECK	R-25 C.I.
WALLS - MASS	R-7.6 C.I.
WALLS - BELOW GRADE	NR
FLOORS - MASS	R-10 C.I.
SLAB ON GRADE - UNHEATED	NR
DOORS - NONSWINGING OPAQUE	R-4.75
DOORS - SWINGING OPAQUE	0.61 U
DOORS - GARAGE <14% GLAZING	0.31U
FENESTRATION - FIXED	0.46 U
FENESTRATION - OPERABLE	0.60 U
FENESTRATION - ENTRANCE DOORS	0.77 U
GLAZING SHGC	0.25
SKYLIGHT	0.55 U
SKYLIGHT - SHGC	0.35

ROOFS (COMPLY WITH ONE)
A) THREE-YEAR-AGED SOLAR REFLECTANCE INDEX OF 55 AND 3-YEAR AGED THERMAL EMITTANCE OF 0.75
B) THREE- YEAR-AGED SOLAR REFLECTANCE INDEX OF 64

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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

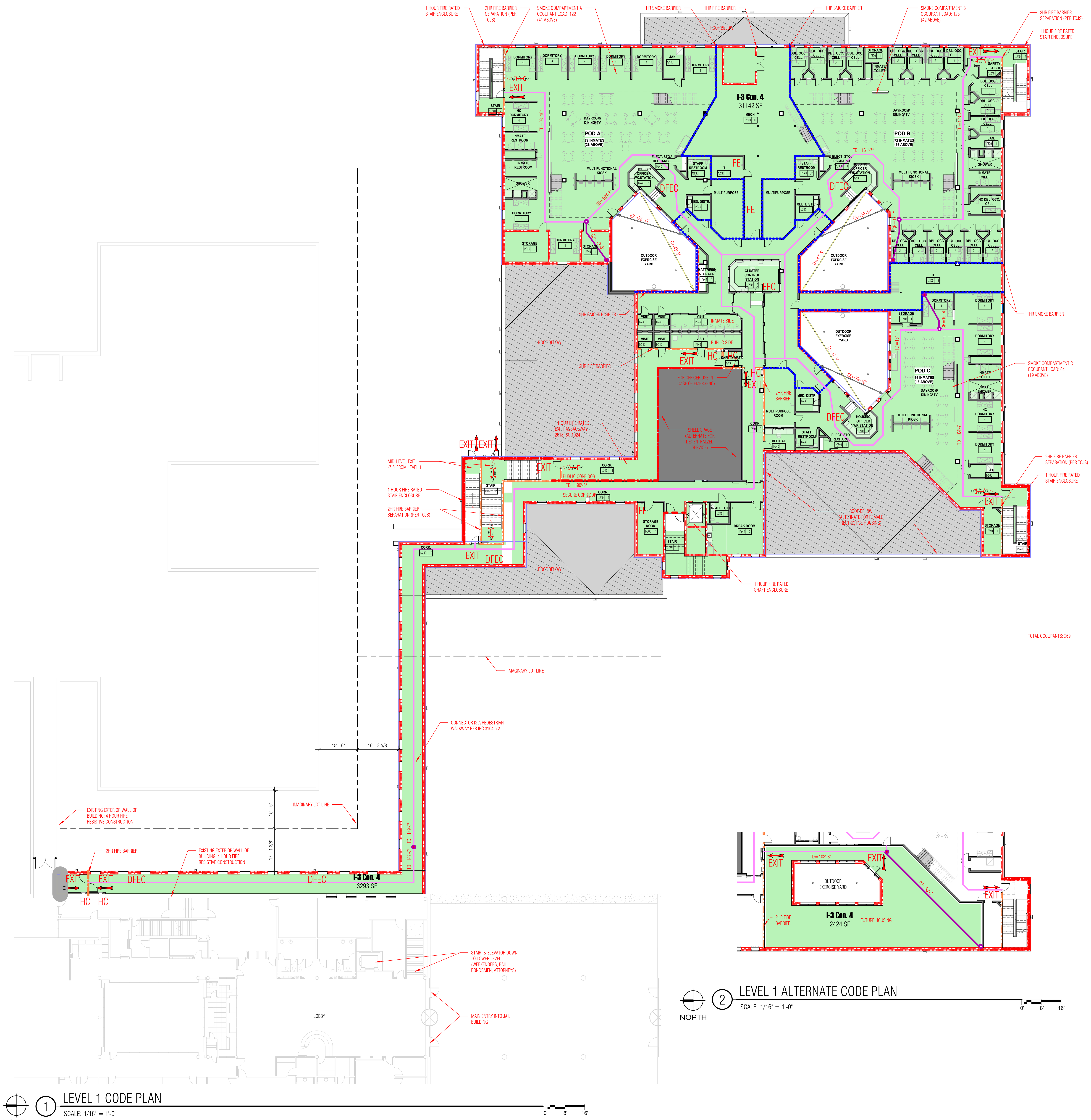
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS
07/13/2021

LOWER LEVEL - CODE PLAN

21913
07/13/2021
A020

FOR BID



1 LEVEL 1 CODE PLAN

SCALE: 1/16" = 1'-0"

2 LEVEL 1 ALTERNATE CODE PLAN

SCALE: 1/16" = 1'-0"

PROJECT INFORMATION

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE,
MCKINNEY, TX 75071

TWO STORY BUILDING HOUSING OFFICES AND HOLDING FACILITY WITH SURFACE PARKING. THE EXTERIOR DESIGN OF THE BUILDING IS A MIXTURE OF BRICK AND CONCRETE PANEL WITH E-COATED GLAZING.

ADOPTED BUILDING CODES*

2018 INTERNATIONAL BUILDING CODE (COMMERCIAL)
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 INTERNATIONAL FUEL & GAS CODE
2012 TEXAS ACCESSIBILITY STANDARDS
TEXAS ADMINISTRATIVE CODE, TITLE 37 PUBLIC SAFETY AND CORRECTIONS, PART 9 TEXAS COMMISSION ON JAIL STANDARDS (TCJS)

*ALL CODES REQUIREMENTS TO INCLUDE LOCAL AMMENDMENTS

OCCUPANCY AND CONSTRUCTION TYPE

OCCUPANCY TYPE	I-3, COND. 4, S-2, B
CONSTRUCTION TYPE	II-A

*REFERENCE CODE PLAN FOR ADDITIONAL INFORMATION

GROSS BUILDING AREA

LOWER LEVEL	48,711 SF
LEVEL 1	36,047 SF
LEVEL 1 ALTERNATE	2,242 SF
TIER LEVEL	10,007 SF
TOTAL	**97,189 SF**

CODE PLAN LEGEND

THIS DRAWING IS BEST VIEWED/PRINTED IN COLOR. IF PRINTED IN BLACK AND WHITE, IT SHOULD BE PRINTED SO THAT THE GRADIENT COLORS SHOW (PHOTO OR GRADIENT PRINTING)

WALL TYPES
- SMOKE BARRIER 1HR
- FIRE BARRIER 1HR
- FIRE BARRIER 2HR

EGRESS PATHS
- COMMON PATH
  - AT GROUP S: 100' MAX
  - AT GROUP I-3: 100' MAX
- EXIT ACCESS TRAVEL
  - AT GROUP S-2: 400' MAX
  - AT GROUP I-3: 200' MAX
- DEAD END CORRIDOR
  - AT GROUP S-2: 20' MAX
  - AT GROUP I-3: 50' MAX

CODE SYMBOLS
- EXIT — EXIT NOTATION
- DIAGONAL DIMENSION
- EXIT SEPARATION
- HC — HOSE CABINET
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET - RECESSED

ROOM TAG
- CORRIDOR 1/100 11 — ROOM NAME; NUMBER OF OCCUPANTS; OCCUPANT/SF RATIO

TYPICAL COMPONENT W/ SPRINKLER TAG
- EGRESS TYPE
- NUMBER OF OCCUPANTS
- REQUIRED WIDTH OF EGRESS
- EGRESS WIDTH FACTOR
- DIRECTION OF EGRESS (SOLID FOR TYP. EGRESS, OUTLINE FOR STAIR)

STAIR W/ SPRINKLER TAG
- EGRESS TYPE
- NUMBER OF OCCUPANTS
- INDICATES OCCUPANTS FROM ABOVE
- REQUIRED WIDTH OF EGRESS
- EGRESS WIDTH FACTOR
- DIRECTION OF EGRESS
- INDICATES OCCUPANTS FROM BELOW
- INDICATES OCCUPANTS COMBINED FROM ABOVE AND BELOW

ADDITIONAL CODE INFORMATION

OCCUPANCY LEGEND

- DETENTION CENTER: I-3, COND. 4
- PARKING: S-2
- OFFICE: B

AUTOMATIC SPRINKLER SYSTEM

BUILDING WILL BE FULLY EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM

FIRE RESISTANCE REQUIREMENTS: II-A

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STRUCTURAL FRAME	- 1 HR: PER IBC TABLE 601	IBC 722.2.4
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MAXIMUM HEIGHT: 85' FEET ABOVE GRADE (PER IBC TABLE 504.3)
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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
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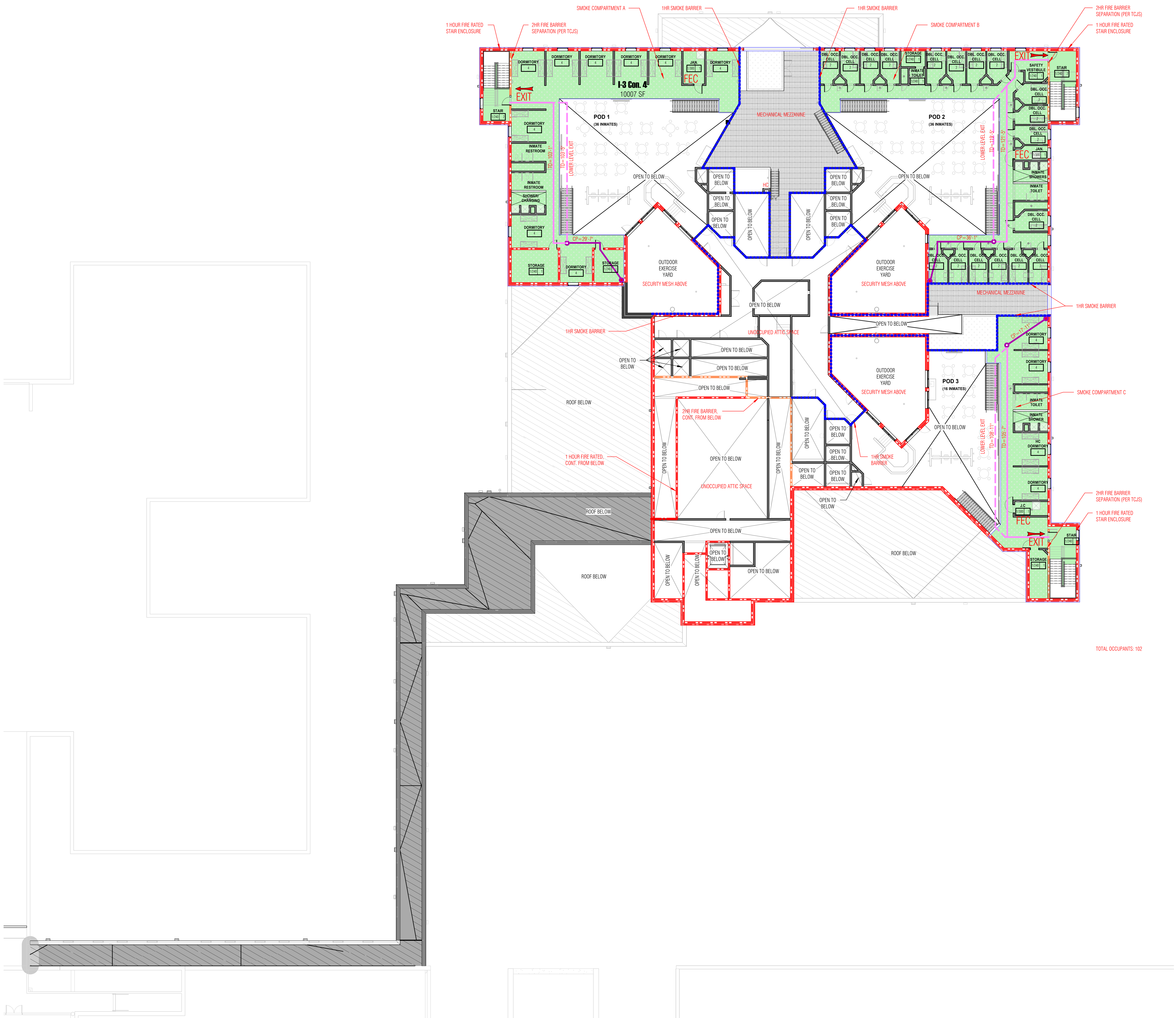
REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS
07/13/2021

LEVEL 1 - CODE PLAN

21913
07/13/2021

A021

FOR BID



1 TIER LEVEL CODE PLAN

SCALE: 1/16" = 1'-0"

NORTH

PROJECT INFORMATION

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE,
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ROOM TAG

CORRIDOR 1/100 11

- ROOM NAME
- NUMBER OF OCCUPANTS
- OCCUPANT/SF RATIO

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CS 280 0.15" 42"

- EGRESS TYPE
- NUMBER OF OCCUPANTS
- REQUIRED WIDTH OF EGRESS
- EGRESS WIDTH FACTOR
- DIRECTION OF EGRESS (SOLID FOR TYP. EGRESS, OUTLINE FOR STAIR)

STAIR W/ SPRINKLER TAG

SS 280 0.2" 56"

- EGRESS TYPE
- NUMBER OF OCCUPANTS
- INDICATES OCCUPANTS FROM ABOVE
- REQUIRED WIDTH OF EGRESS
- EGRESS WIDTH FACTOR
- DIRECTION OF EGRESS

SS 280 0.2" 56" — INDICATES OCCUPANTS FROM BELOW

SS 280 0.2" 56" — INDICATES OCCUPANTS COMBINED FROM ABOVE AND BELOW

ADDITIONAL CODE INFORMATION

OCCUPANCY LEGEND

- DETENTION CENTER: I-3, COND. 4
- PARKING: S-2
- OFFICE: B

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$A_a = [45,000 + (11,250)]$
$A_a =$ 56,250 SF ALLOWED

'S-2' INCREASE

$A_a = [A_t + (NS * I_f)]$
$A_a = [117,000 + (39,000 * 0.75)]$
$A_a = [117,000 + (29,250)]$
$A_a =$ 146,250 SF ALLOWED

'B' INCREASE

$A_a = [A_t + (NS * I_f)]$
$A_a = [112,500 + (37,500 * 0.75)]$
$A_a = [117,000 + (28,125)]$
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I-3	= 38,471 / 56,250	= 0.68 < 1.0	[OK]

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I-3	= 10,007 / 56,250	= 0.18 < 1.0	[OK]

ENERGY CODE

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WALLS - BELOW GRADE	NR
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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

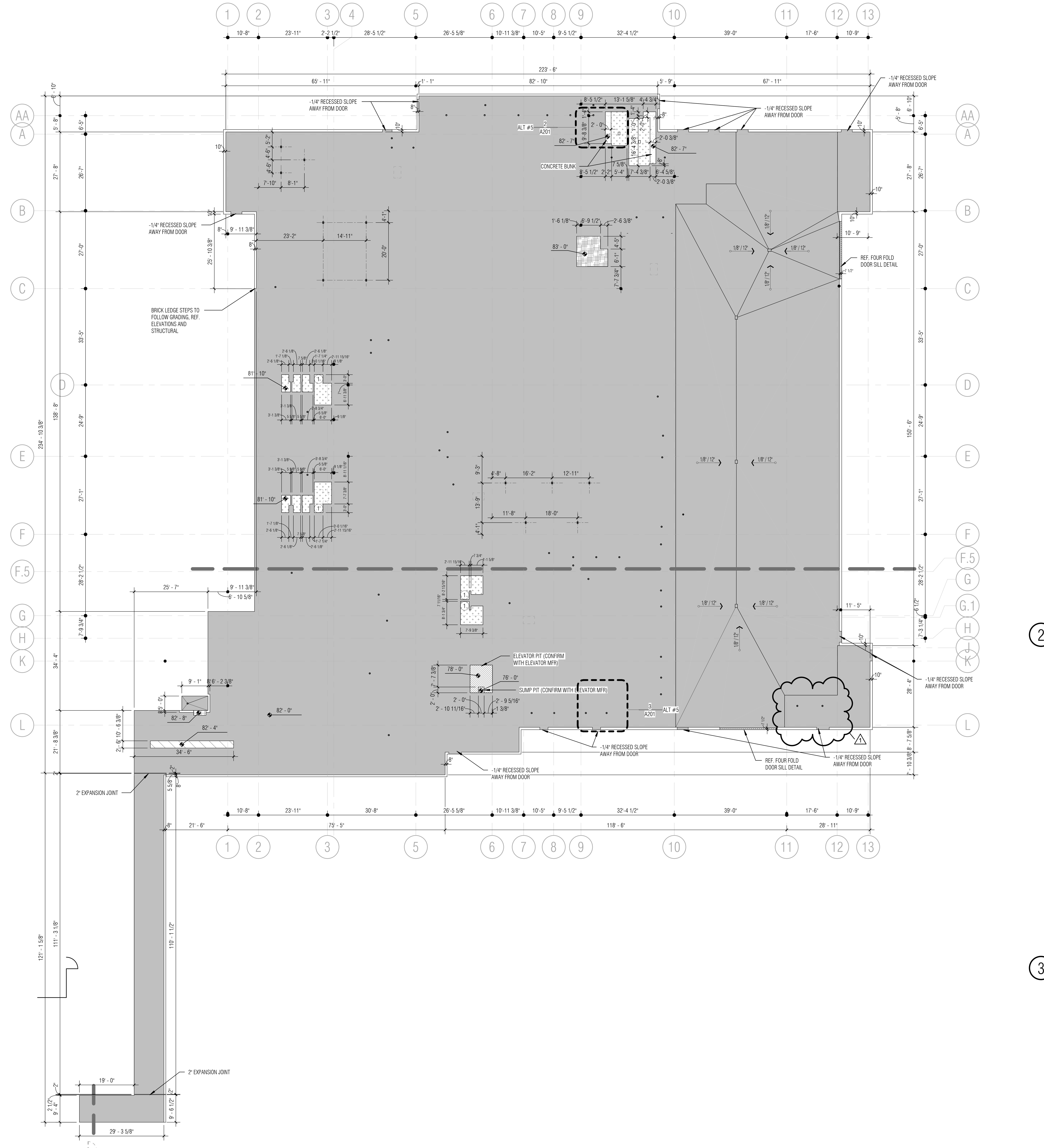
REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS
07/13/2021

TIER LEVEL - CODE PLAN

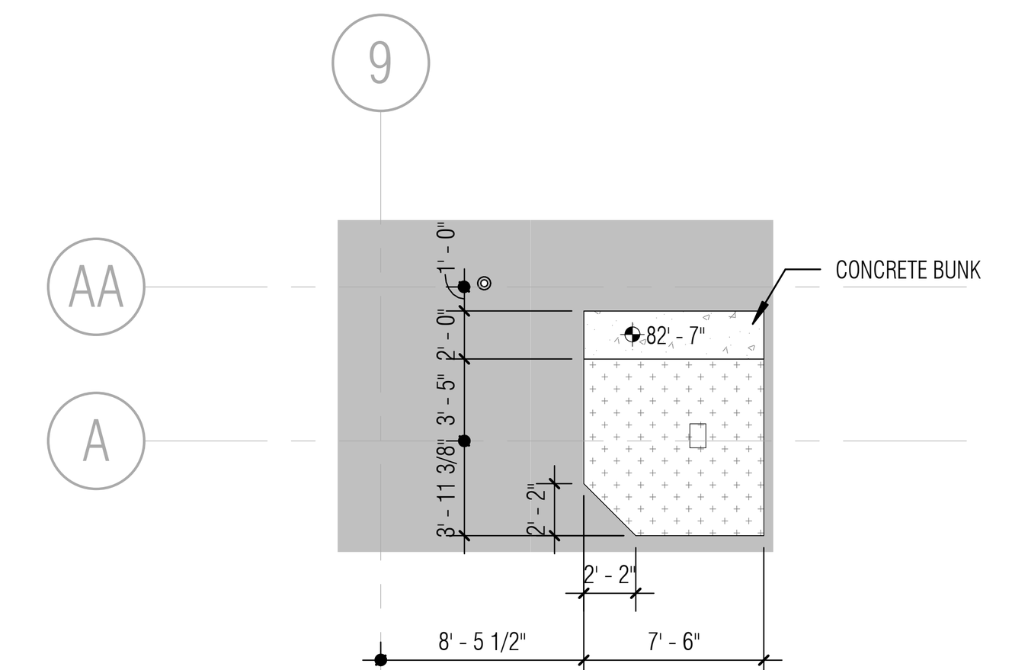
21913
07/13/2021

A022

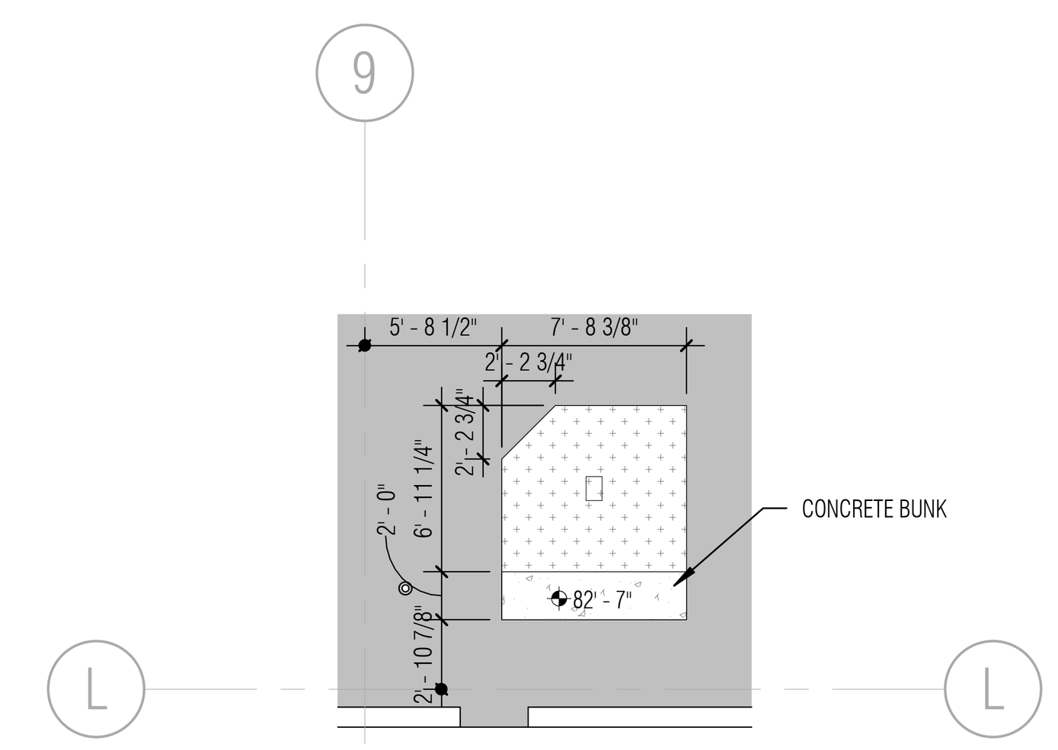
FOR BID



1 SLAB EDGE PLAN - LOWER LEVEL
SCALE: 1/16" = 1'-0"



2 SE 1119-ALT#5
SCALE: 1/8" = 1'-0"



3 SE 1328-ALT#5
SCALE: 1/8" = 1'-0"

SLAB EDGE LEGEND

- (+32") ABOVE FINISH FLOOR
- (+24") FINISH FLOOR LEVEL
- (+12") ABOVE FINISH FLOOR
- (+ 8") ABOVE FINISH FLOOR
- (+7") ABOVE FINISH FLOOR
- (+4") ABOVE FINISH FLOOR
- (+0") FINISH FLOOR LEVEL
- (-3/4") BELOW FINISH FLOOR, SLOPE AWAY FROM BUILDING MAX 2%
- (- 2") BELOW FINISH FLOOR
- (- 4") BELOW FINISH FLOOR
- (- 8") BELOW FINISH FLOOR
- (- 8.5") BELOW FINISH FLOOR
- (- 48") BELOW FINISH FLOOR
- (- 72") BELOW FINISH FLOOR
- (- 100") BELOW FINISH FLOOR

ELECTRICAL FLOOR BOX

SHEET NOTES:
1. SLAB EDGE PROVIDED FOR HORIZONTAL CONTROL OF POURED SLABS RELATED TO EDGES, OPENINGS, RECESSES, MAJOR PIPE PENETRATIONS, FLOOR BOXES AND BRICK LEDGES, COORDINATE WITH STRUCTURAL DRAWINGS, ALERT ARCHITECT TO DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS
2. BRICK LEDGE IS 8" WIDE TYP, UNLESS NOTED OTHERWISE.
3. AT ALL EXTERIOR DOORS, RECESS SLAB 1/4" AND SLOPE TO EXTERIOR.
4. PIPE SLEEVE LOCATIONS ARE NOT PROVIDED FOR ALL PIPE PENETRATIONS, JUST THOSE THROUGH CONCRETE BEAMS WHERE LOCATION IS CRITICAL. REFERENCE PLUMBING DRAWINGS FOR PIPE SIZES AND ADDITIONAL PENETRATION LOCATIONS.
5. ELECTRICAL FLOOR BOXES SHOWN FOR LOCATION PURPOSES, REFERENCE ELECTRICAL DRAWINGS FOR BOX TYPE AND SIZE

SLAB EDGE PLAN KEYNOTES

1	COORDINATE SLAB DROP WITH CMU FINISH TO PROVIDE SHOWER WITH FINAL INTERIOR DIMENSION OF 36" X 36" PER TAS ADA REQUIREMENTS. MODIFY SLAB DROP PER ALTERNATE FINISH SELECTED. SEE A821 FOR CURB BASE DETAIL, ALT #4

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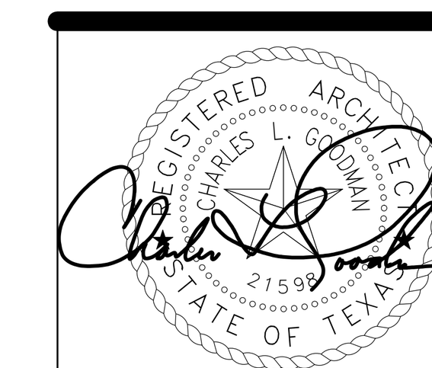
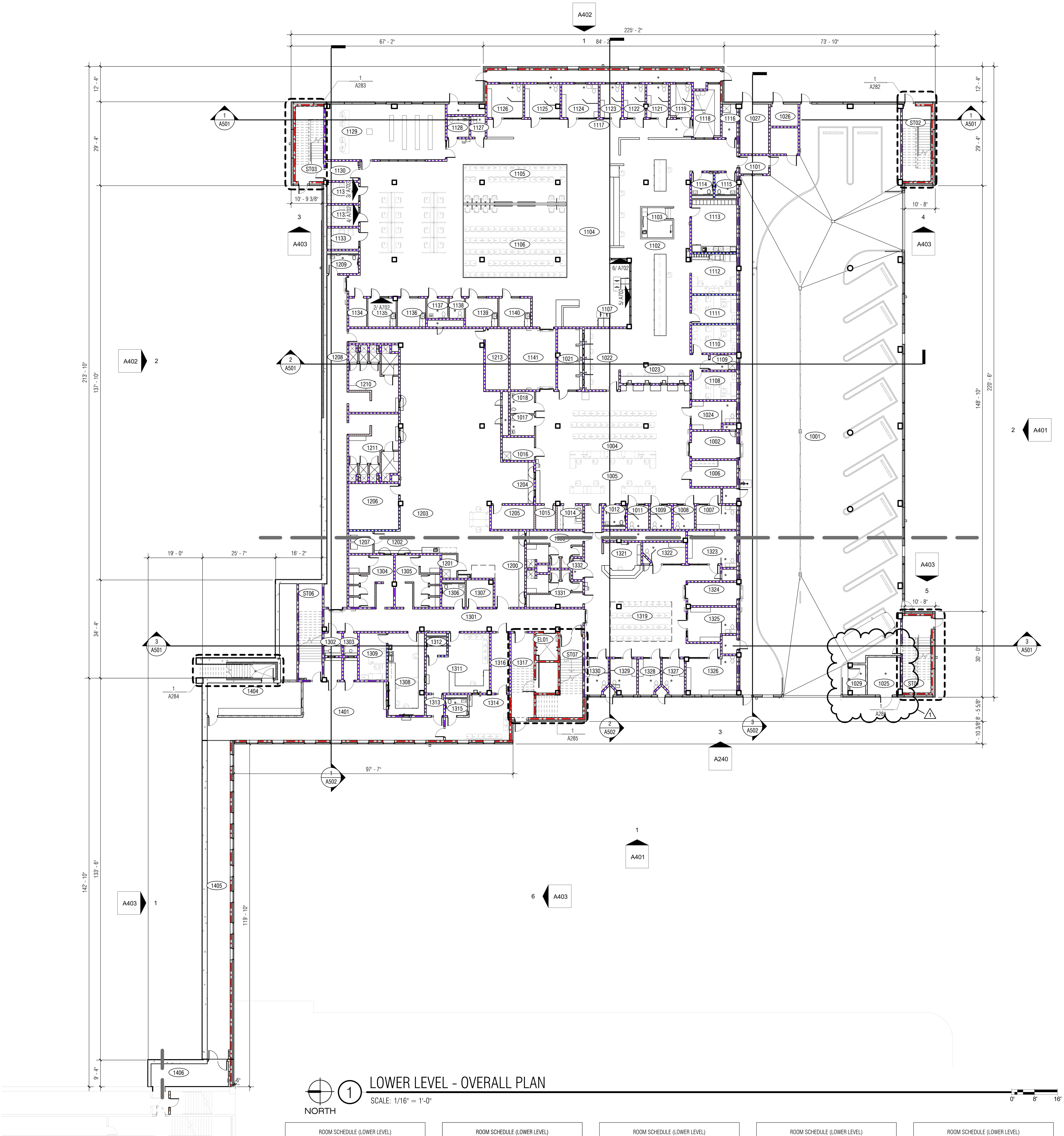


07/13/2021

SLAB EDGE PLAN - LOWER LEVEL

21913
07/13/2021
A201

FOR BID



1 LOWER LEVEL - OVERALL PLAN

NORTH

SCALE: 1/16" = 1'-0"

0' 8' 16'

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1001	VEHICLE SALLYPORT
1002	SAFETY VEST.
1003	PRE-BOOKING WAITING
1004	PRE-BOOKING
1005	ARRESTING OFF. WK AREA
1006	INTOX.
1007	HOLDING CELL ADA [4]
1008	HOLDING CELL [1]
1009	HOLDING CELL [1]
1011	HOLDING CELL [1]
1012	STAFF RR
1014	PRINT
1015	STO.
1016	JAN.
1017	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1018	INMATE RR
1019	ADA INMATE RR
1021	HEALTH SCREEN
1022	HEALTH SCREEN
1023	PRE-BOOKING
1024	HOLDING CELL ADA (4)
1025	FIRE
1026	ELEC
1027	MECH
1028	STORAGE
1029	PUMP
1101	SAFETY VEST.
1102	BOOKING WORK AREA
1103	BOOKING COORD. (SGT.)
1104	BOOKING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1105	FEMALE OPEN WAITING
1106	MALE OPEN WAITING
1107	AFIS/ FINGER
1108	BOOKING/ RELEASE/ CLASS. SUPV.
1109	JAN.
1110	ADMISSIONS/ RELEASE MGR.
1111	OFFICE
1112	PRINT/ COPY/ WORK ALCOVE
1113	STAFF BREAK ROOM
1114	STAFF RR
1115	STAFF RR
1116	JAN.
1117	CORRIDOR
1118	HC DETOX CELL [5]
1119	DETOX CELL [2]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1121	HOLDING CELL [3]
1122	HOLDING CELL [3]
1123	HOLDING CELL [3]
1124	HOLDING CELL ADA [5]
1125	HOLDING CELL [5]
1126	HOLDING CELL [5]
1127	INMATE RR
1128	ADA INMATE RR
1129	COURT ROOM
1130	SAFETY VEST.
1131	INTERVIEW
1132	INTERVIEW
1133	INTERVIEW
1134	MED STO.
1135	MENTAL HEALTH SCREENING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1136	MENTAL HEALTH SCREENING
1137	ADA INMATE RR
1138	INMATE RR
1139	HEALTH EXAM
1140	HEALTH EXAM
1141	BODY SCAN/ MTL. DETC.
1200	TRANSFER STAGING
1201	JAN
1202	RELEASE STAGING
1203	PROPERTY STORAGE ROOM
1204	PROPERTY COLLECTION
1205	VAL PROP. STO
1206	JAIL CLOTHING STORAGE
1207	LAUNDRY
1208	CORRIDOR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1209	STAFF RR
1210	FEMALE SHOWER/ SEARCH
1211	MALE SHOWER/ SEARCH
1213	IT
1301	CORRIDOR
1302	INMATE VISIT
1303	INMATE VISIT
1304	FEMALE CHANGING CUBICLES
1305	MALE CHANGING CUBICLES
1306	RR STAFF
1307	ELEC. MON. VEND.
1308	RECORDS/ BOND OFFICE STATION
1309	BONDING SUPV.
1311	RELEASE PROCESSING STATION
1312	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1313	SAFETY VEST.
1314	OPEN WAIT. - SELF REPORTS
1315	INMATE RR
1316	SAFETY VEST.
1317	SAFETY VEST
1318	ELEV. MACHINE ROOM
1319	OPEN WAITING TRANSFER
1320	TRANSFER
1321	TRANSFER COORD.
1322	HOLDING CELL [3]
1323	SECURE HOLDING CELL ADA [8]
1324	SAFETY VEST.
1325	SECURE HOLDING CELL ADA [7]
1326	SECURE HOLDING CELL [8]
1327	HOLDING CELL [3]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1328	HOLDING CELL [3]
1329	HOLDING CELL ADA [3]
1330	HOLDING CELL [3]
1331	MALE CHANGING
1332	JAN.
1333	FEMALE CHANGING
1401	CORRIDOR
1402	ATTY. VISIT
1403	ATTY. VISIT
1404	ELEC.
1405	CORRIDOR
1406	CORRIDOR

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

07/13/2021

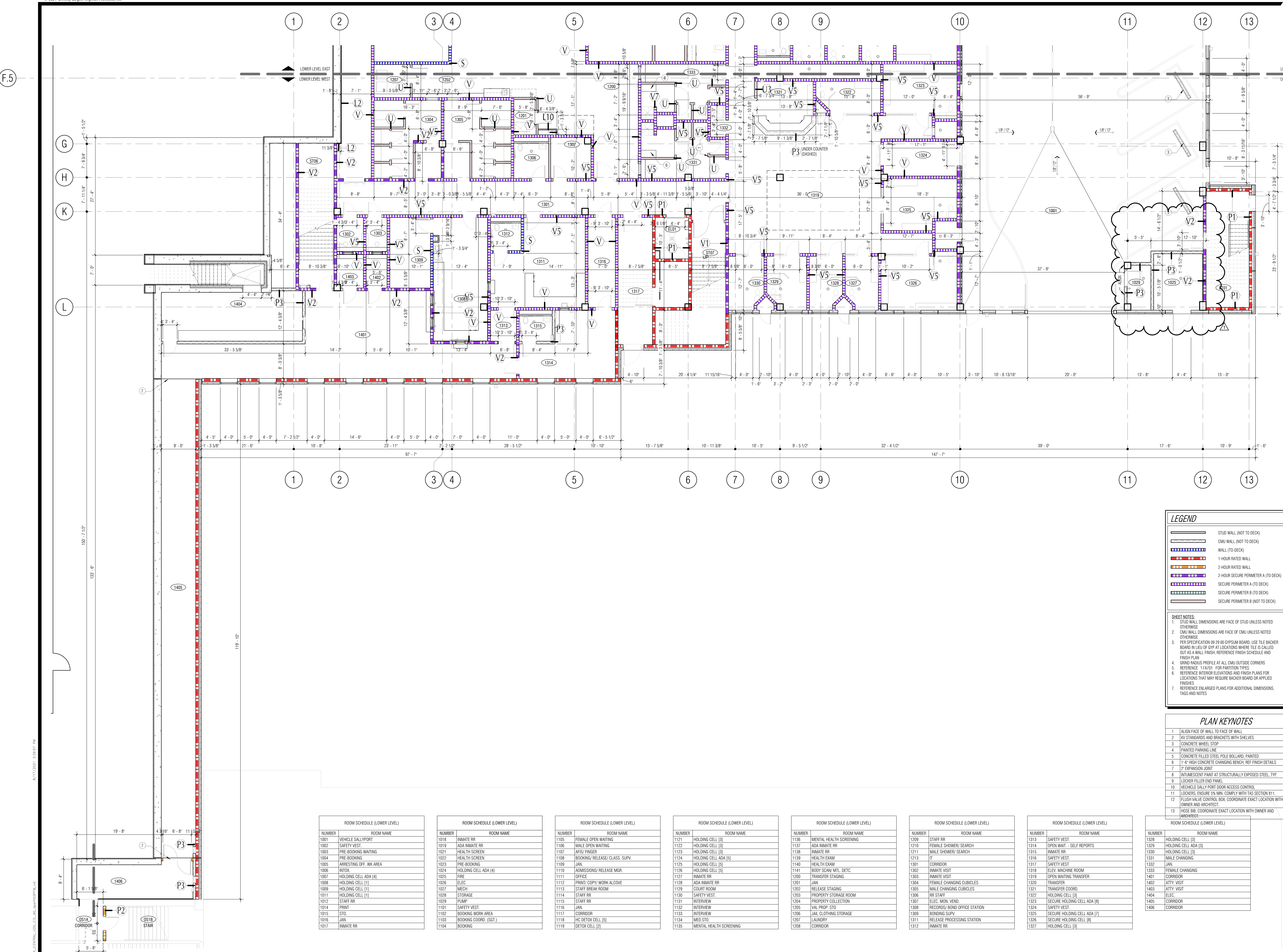
LOWER LEVEL - OVERALL PLAN

21913

07/13/2021

A210

FOR BID



1 LOWER LEVEL WEST - WALL TAGS, DIMS

SCALE: 1/8" = 1'-0"

NORTH

LEGEND

- STUD WALL (NOT TO DECK)
- CMU WALL (NOT TO DECK)
- WALL (TO-DECK)
- 1-HOUR RATED WALL
- 2-HOUR RATED WALL
- 2-HOUR SECURE PERIMETER A (TO DECK)
- SECURE PERIMETER A (TO DECK)
- SECURE PERIMETER B (TO DECK)
- SECURE PERIMETER B (NOT TO DECK)

SHEET NOTES:

1. STUD WALL DIMENSIONS ARE FACE OF STUD UNLESS NOTED OTHERWISE
2. CMU WALL DIMENSIONS ARE FACE OF CMU UNLESS NOTED OTHERWISE
3. PER SPECIFICATION 09 29 00 GYPSUM BOARD, USE TILE BACKER BOARD IN LIEU OF GYP AT LOCATIONS WHERE TILE IS CALLED OUT AS A WALL FINISH, REFERENCE FINISH SCHEDULE AND FINISH PLAN
4. GRIND RADIUS PROFILE AT ALL CMU OUTSIDE CORNERS
5. REFERENCE 1/A701 FOR PARTITION TYPES
6. REFERENCE INTERIOR ELEVATIONS AND FINISH PLANS FOR LOCATIONS THAT MAY REQUIRE BACKER BOARD OR APPLIED FINISHES
7. REFERENCE ENLARGED PLANS FOR ADDITIONAL DIMENSIONS, TAGS AND NOTES

PLAN KEYNOTES

1	ALIGN FACE OF WALL TO FACE OF WALL
2	KV STANDARDS AND BRACKETS WITH SHELVES
3	CONCRETE WHEEL STOP
4	PAINTED PARKING LINE
5	CONCRETE FILLED STEEL POLE BOLLARD, PAINTED
6	1'-6" HIGH CONCRETE CHANGING BENCH, REF FINISH DETAILS
7	2" EXPANSION JOINT
8	INTUMESCENT PAINT AT STRUCTURALLY EXPOSED STEEL, TYP.
9	LOCKER FILLER END PANEL
10	VECHICLE SALLY PORT DOOR ACCESS CONTROL
11	LOCKERS, ENSURE 5% MIN. COMPLY WITH TAS SECTION 811.
12	FLUSH VALVE CONTROL BOX, COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.
13	HOSE BIB, COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT.

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1001	VEHICLE SALLYPORT
1002	SAFETY VEST.
1003	PRE-BOOKING WAITING
1004	PRE-BOOKING
1005	ARRESTING OFF. WK AREA
1006	INTOX.
1007	HOLDING CELL ADA [4]
1008	HOLDING CELL [1]
1009	HOLDING CELL [1]
1011	HOLDING CELL [1]
1012	STAFF RR
1014	PRINT
1015	STO.
1016	JAN.
1017	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1018	INMATE RR
1019	ADA INMATE RR
1021	HEALTH SCREEN
1022	HEALTH SCREEN
1023	PRE-BOOKING
1024	HOLDING CELL ADA (4)
1025	FIRE
1026	ELEC
1027	MECH
1028	STORAGE
1029	PUMP
1101	SAFETY VEST.
1102	BOOKING WORK AREA
1103	BOOKING COORD. (SGT.)
1104	BOOKING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1105	FEMALE OPEN WAITING
1106	MALE OPEN WAITING
1107	AFIS/ FINGER
1108	BOOKING/ RELEASE/ CLASS. SUPV.
1109	JAN.
1110	ADMISSIONS/ RELEASE MGR.
1111	OFFICE
1112	PRINT/ COPY/ WORK ALCOVE
1113	STAFF BREAK ROOM
1114	STAFF RR
1115	STAFF RR
1116	JAN.
1117	CORRIDOR
1118	HC DETOX CELL [5]
1119	DETOX CELL [2]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1121	HOLDING CELL [3]
1122	HOLDING CELL [3]
1123	HOLDING CELL [3]
1124	HOLDING CELL ADA [5]
1125	HOLDING CELL [5]
1126	HOLDING CELL [5]
1127	INMATE RR
1128	ADA INMATE RR
1129	COURT ROOM
1130	SAFETY VEST.
1131	INTERVIEW
1132	INTERVIEW
1133	INTERVIEW
1134	MED STO.
1135	MENTAL HEALTH SCREENING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1136	MENTAL HEALTH SCREENING
1137	ADA INMATE RR
1138	INMATE RR
1139	HEALTH EXAM
1140	HEALTH EXAM
1141	BODY SCAN/ MTL. DETC.
1200	TRANSFER STAGING
1201	JAN
1202	RELEASE STAGING
1203	PROPERTY STORAGE ROOM
1204	PROPERTY COLLECTION
1205	VAL PROP. STO
1206	JAIL CLOTHING STORAGE
1207	LAUNDRY
1208	CORRIDOR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1209	STAFF RR
1210	FEMALE SHOWER/ SEARCH
1211	MALE SHOWER/ SEARCH
1213	IT
1301	CORRIDOR
1302	INMATE VISIT
1303	INMATE VISIT
1304	FEMALE CHANGING CUBICLES
1305	MALE CHANGING CUBICLES
1306	RR STAFF
1307	ELEC. MON. VEND.
1308	RECORDS/ BOND OFFICE STATION
1309	BONDING SUPV.
1311	RELEASE PROCESSING STATION
1312	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1313	SAFETY VEST.
1314	OPEN WAIT. - SELF REPORTS
1315	INMATE RR
1316	SAFETY VEST.
1317	SAFETY VEST
1318	ELEV. MACHINE ROOM
1319	OPEN WAITING TRANSFER
1320	TRANSFER
1321	TRANSFER COORD.
1322	HOLDING CELL [3]
1323	SECURE HOLDING CELL ADA [8]
1324	SAFETY VEST.
1325	SECURE HOLDING CELL ADA [7]
1326	SECURE HOLDING CELL [8]
1327	HOLDING CELL [3]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1328	HOLDING CELL [3]
1329	HOLDING CELL ADA [3]
1330	HOLDING CELL [3]
1331	MALE CHANGING
1332	JAN.
1333	FEMALE CHANGING
1401	CORRIDOR
1402	ATTY. VISIT
1403	ATTY. VISIT
1404	ELEC.
1405	CORRIDOR
1406	CORRIDOR

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

07/13/2021

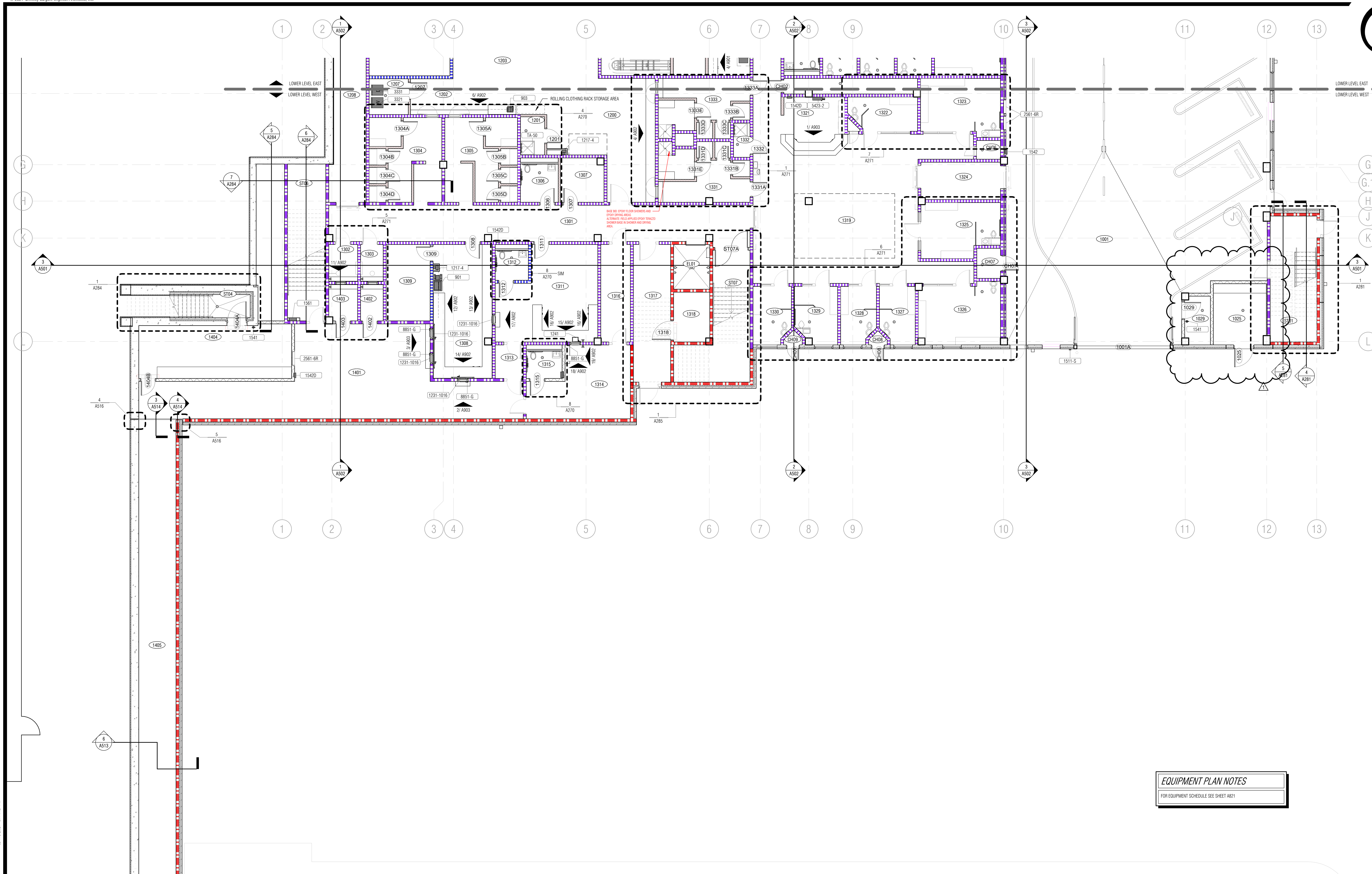
LOWER LEVEL WEST - FLOOR PLAN - WALL TAGS, DIMENSIONS

21913

07/13/2021

A222

FOR BID



1 LOWER LEVEL WEST - EQUIPMENT, INTERIOR ELEV.

NORTH

SCALE: 1/8" = 1'-0"

0' 4' 8'

EQUIPMENT PLAN NOTES

FOR EQUIPMENT SCHEDULE SEE SHEET A821

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1001	VEHICLE SALLYPORT
1002	SAFETY VEST.
1003	PRE-BOOKING WAITING
1004	PRE-BOOKING
1005	ARRESTING OFF. WK AREA
1006	INTOX.
1007	HOLDING CELL ADA [4]
1008	HOLDING CELL [1]
1009	HOLDING CELL [1]
1011	HOLDING CELL [1]
1012	STAFF RR
1014	PRINT
1015	STO.
1016	JAN.
1017	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1018	INMATE RR
1019	ADA INMATE RR
1021	HEALTH SCREEN
1022	HEALTH SCREEN
1023	PRE-BOOKING
1024	HOLDING CELL ADA (4)
1025	FIRE
1026	ELEC
1027	MECH
1028	STORAGE
1029	PUMP
1101	SAFETY VEST.
1102	BOOKING WORK AREA
1103	BOOKING COORD. (SGT.)
1104	BOOKING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1105	FEMALE OPEN WAITING
1106	MALE OPEN WAITING
1107	AFIS/ FINGER
1108	BOOKING/ RELEASE/ CLASS. SUPV.
1109	JAN.
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1113	STAFF BREAK ROOM
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1115	STAFF RR
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1117	CORRIDOR
1118	HC DETOX CELL [5]
1119	DETOX CELL [2]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1121	HOLDING CELL [3]
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1123	HOLDING CELL [3]
1124	HOLDING CELL ADA [5]
1125	HOLDING CELL [5]
1126	HOLDING CELL [5]
1127	INMATE RR
1128	ADA INMATE RR
1129	COURT ROOM
1130	SAFETY VEST.
1131	INTERVIEW
1132	INTERVIEW
1133	INTERVIEW
1134	MED STO.
1135	MENTAL HEALTH SCREENING

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1136	MENTAL HEALTH SCREENING
1137	ADA INMATE RR
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1200	TRANSFER STAGING
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1205	VAL PROP. STO
1206	JAIL CLOTHING STORAGE
1207	LAUNDRY
1208	CORRIDOR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1209	STAFF RR
1210	FEMALE SHOWER/ SEARCH
1211	MALE SHOWER/ SEARCH
1213	IT
1301	CORRIDOR
1302	INMATE VISIT
1303	INMATE VISIT
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1309	BONDING SUPV.
1311	RELEASE PROCESSING STATION
1312	INMATE RR

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1313	SAFETY VEST.
1314	OPEN WAIT. - SELF REPORTS
1315	INMATE RR
1316	SAFETY VEST.
1317	SAFETY VEST
1318	ELEV. MACHINE ROOM
1319	OPEN WAITING TRANSFER
1320	TRANSFER
1321	TRANSFER COORD.
1322	HOLDING CELL [3]
1323	SECURE HOLDING CELL ADA [8]
1324	SAFETY VEST.
1325	SECURE HOLDING CELL ADA [7]
1326	SECURE HOLDING CELL [8]
1327	HOLDING CELL [3]

ROOM SCHEDULE (LOWER LEVEL)

NUMBER	ROOM NAME
1328	HOLDING CELL [3]
1329	HOLDING CELL ADA [3]
1330	HOLDING CELL [3]
1331	MALE CHANGING
1332	JAN.
1333	FEMALE CHANGING
1401	CORRIDOR
1402	ATTY. VISIT
1403	ATTY. VISIT
1404	ELEC.
1405	CORRIDOR
1406	CORRIDOR

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS

07/13/2021

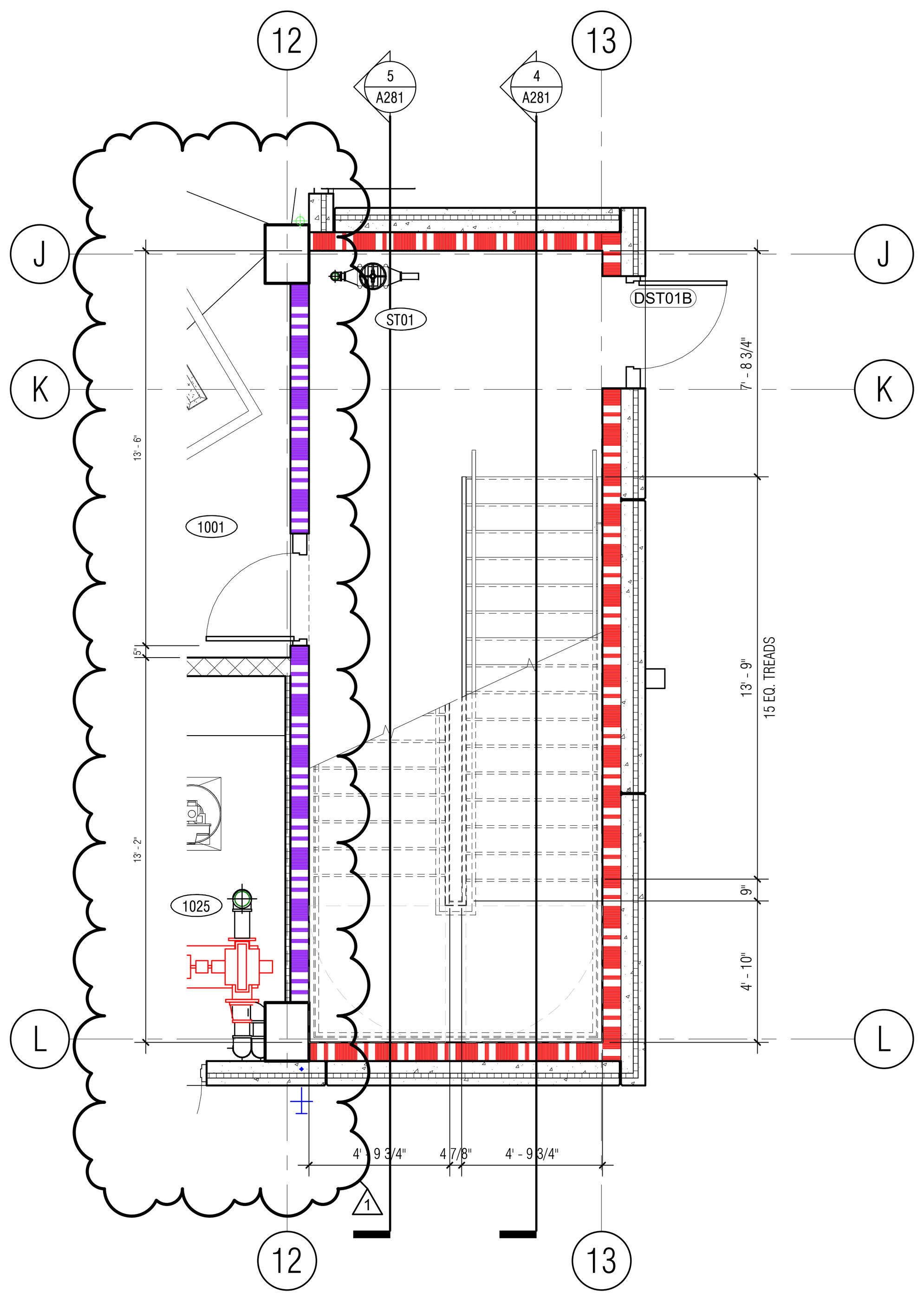
LOWER LEVEL WEST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS

21913

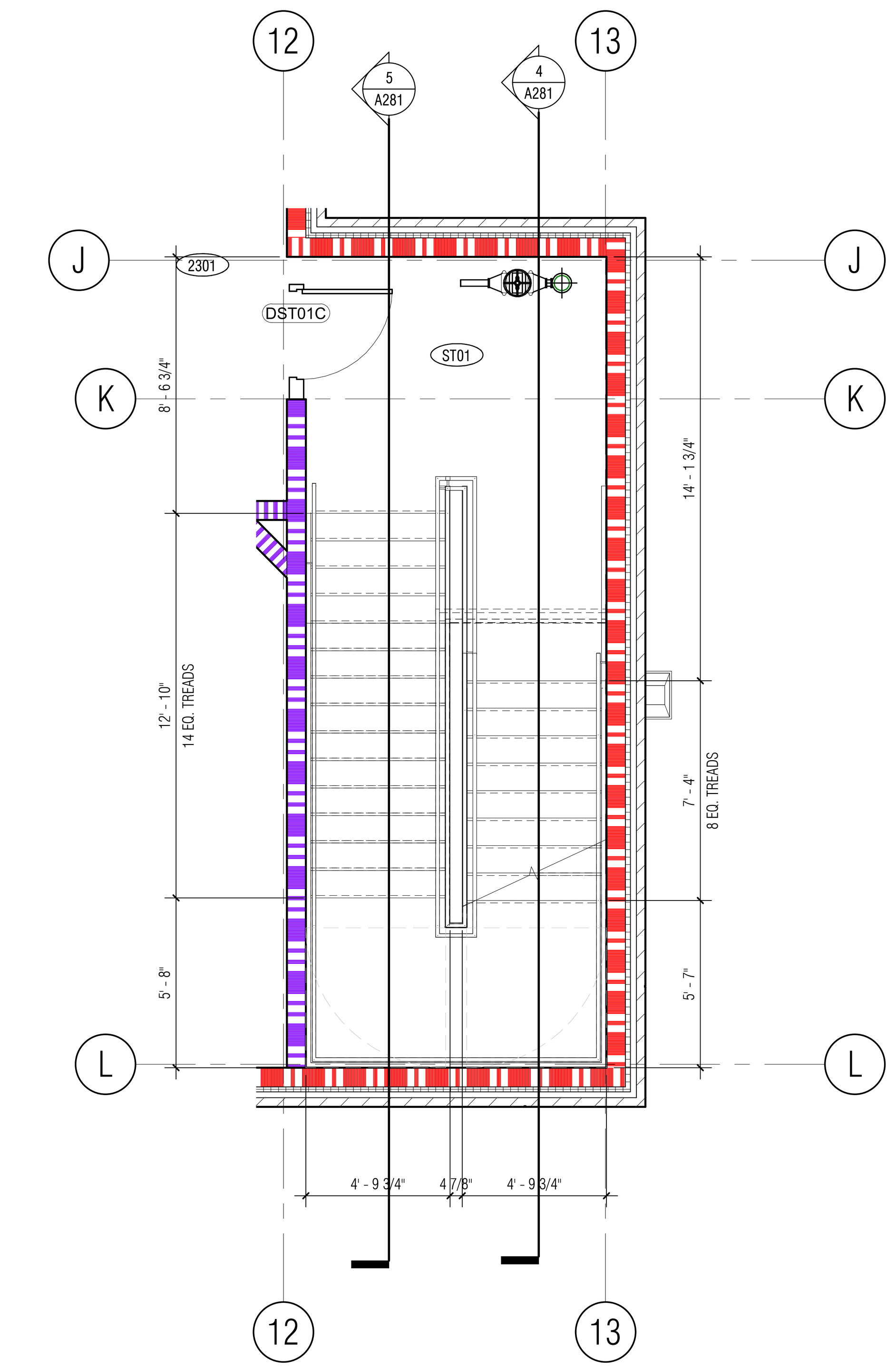
07/13/2021

A223

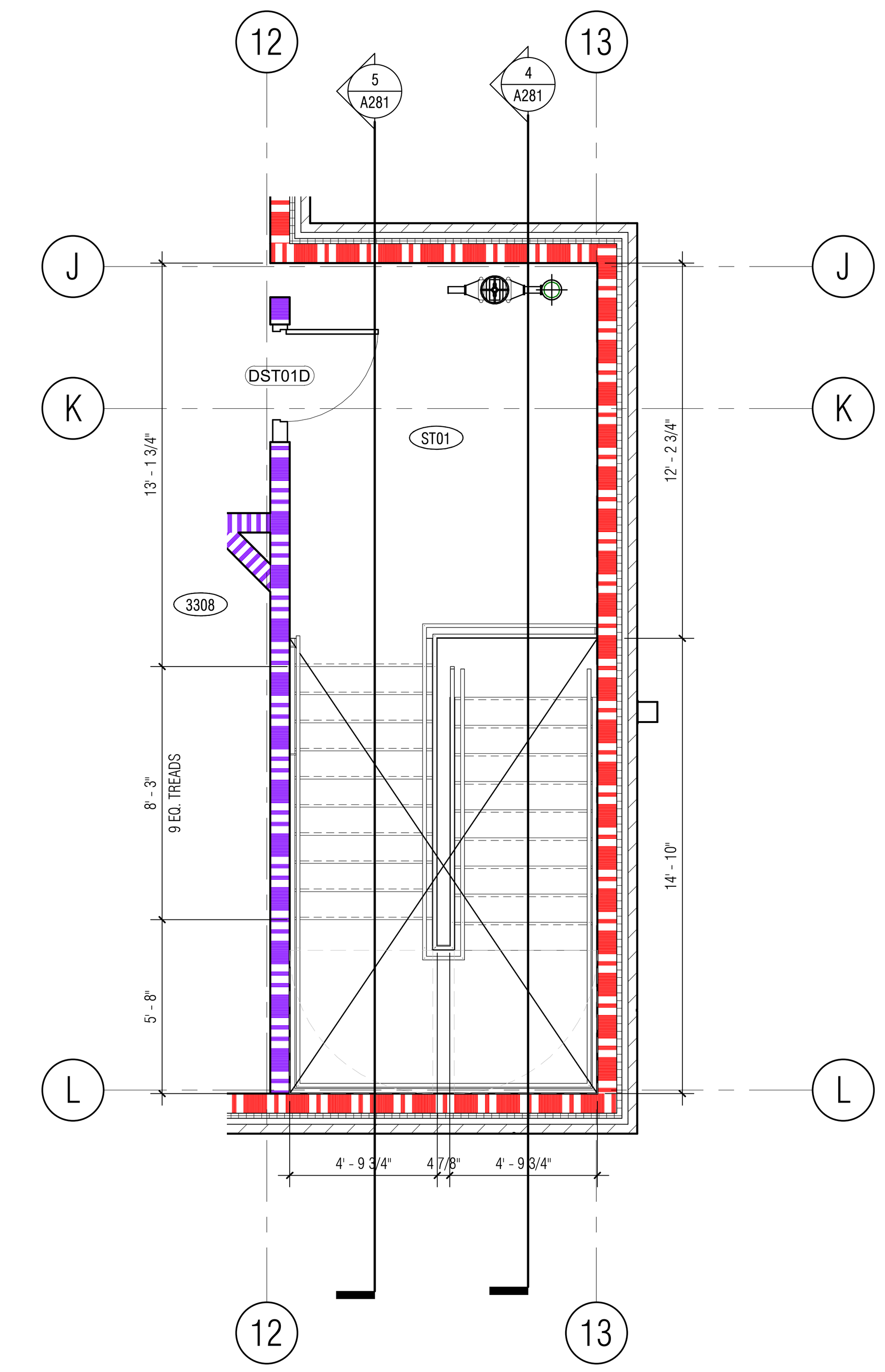
FOR BID



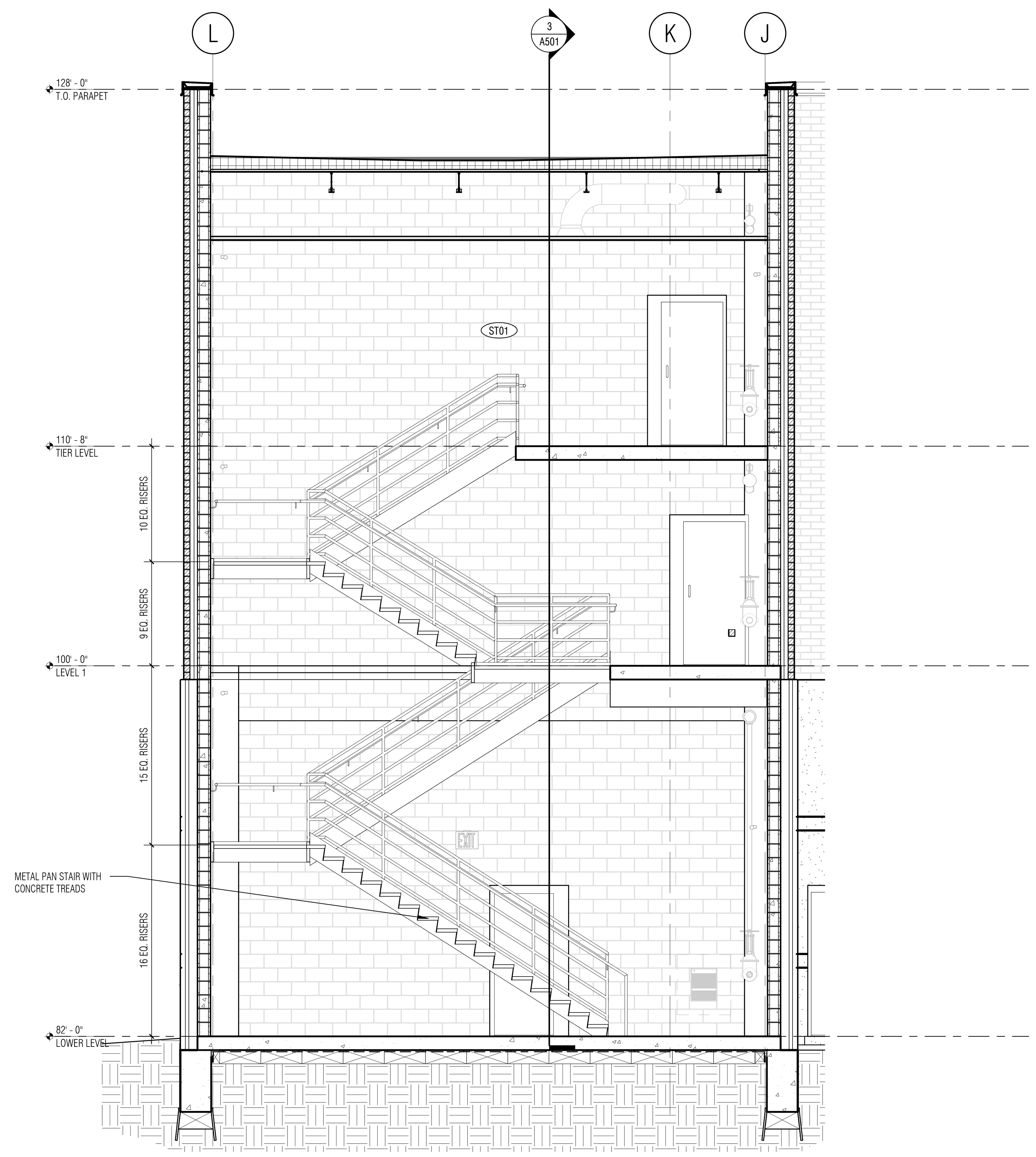
1 LOWER LEVEL STAIR ST01
SCALE: 1/4" = 1'-0"
NORTH



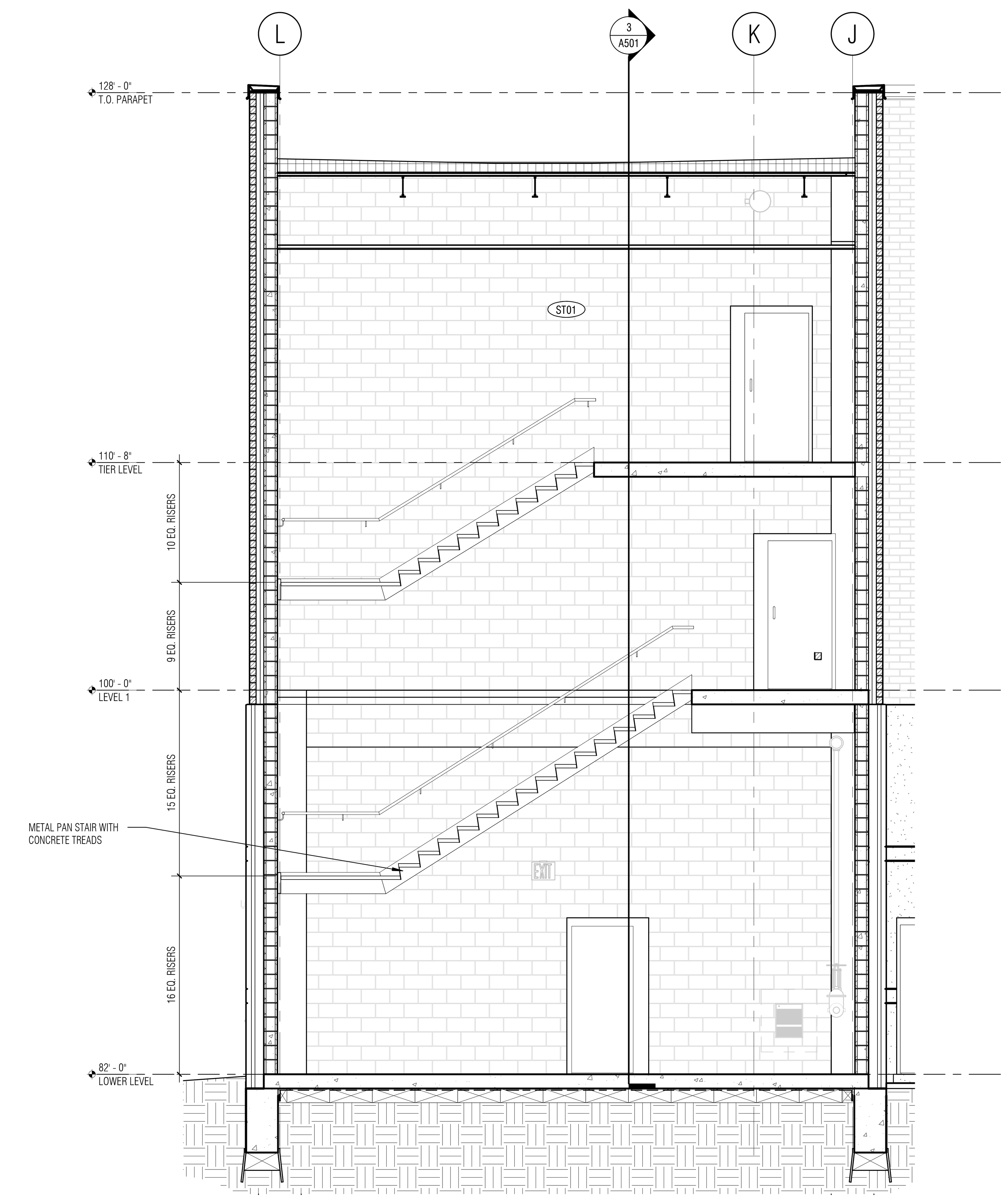
2 LEVEL 1 STAIR ST01
SCALE: 1/4" = 1'-0"
NORTH



3 TIER LEVEL STAIR 01
SCALE: 1/4" = 1'-0"
NORTH



4 STAIR SECTION ST01-1
SCALE: 1/4" = 1'-0"



5 STAIR SECTION ST01-2
SCALE: 1/4" = 1'-0"

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

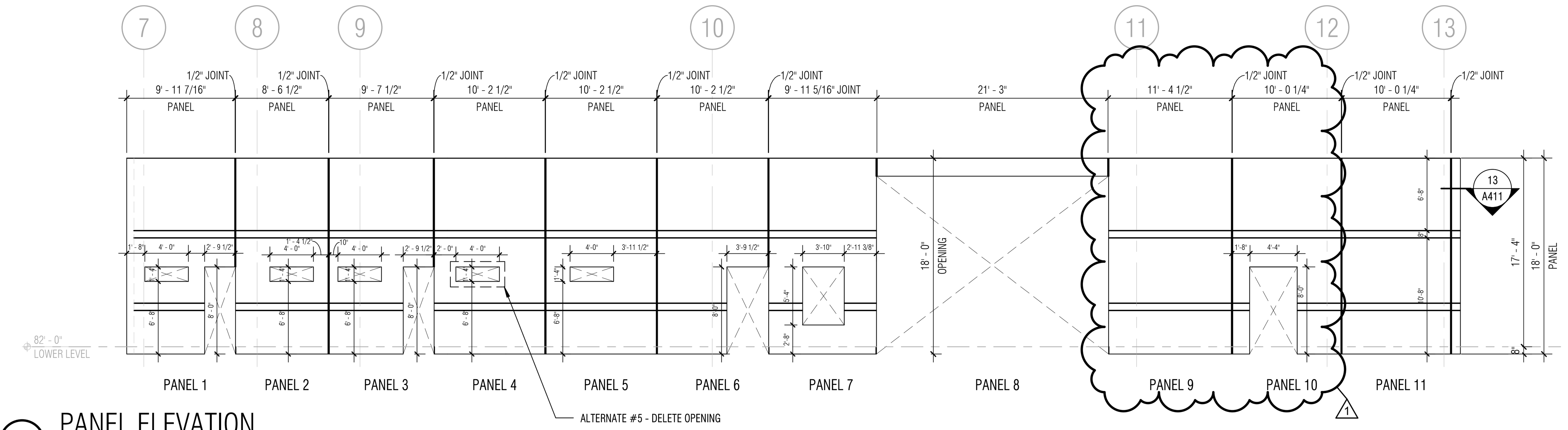
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

07/13/2021

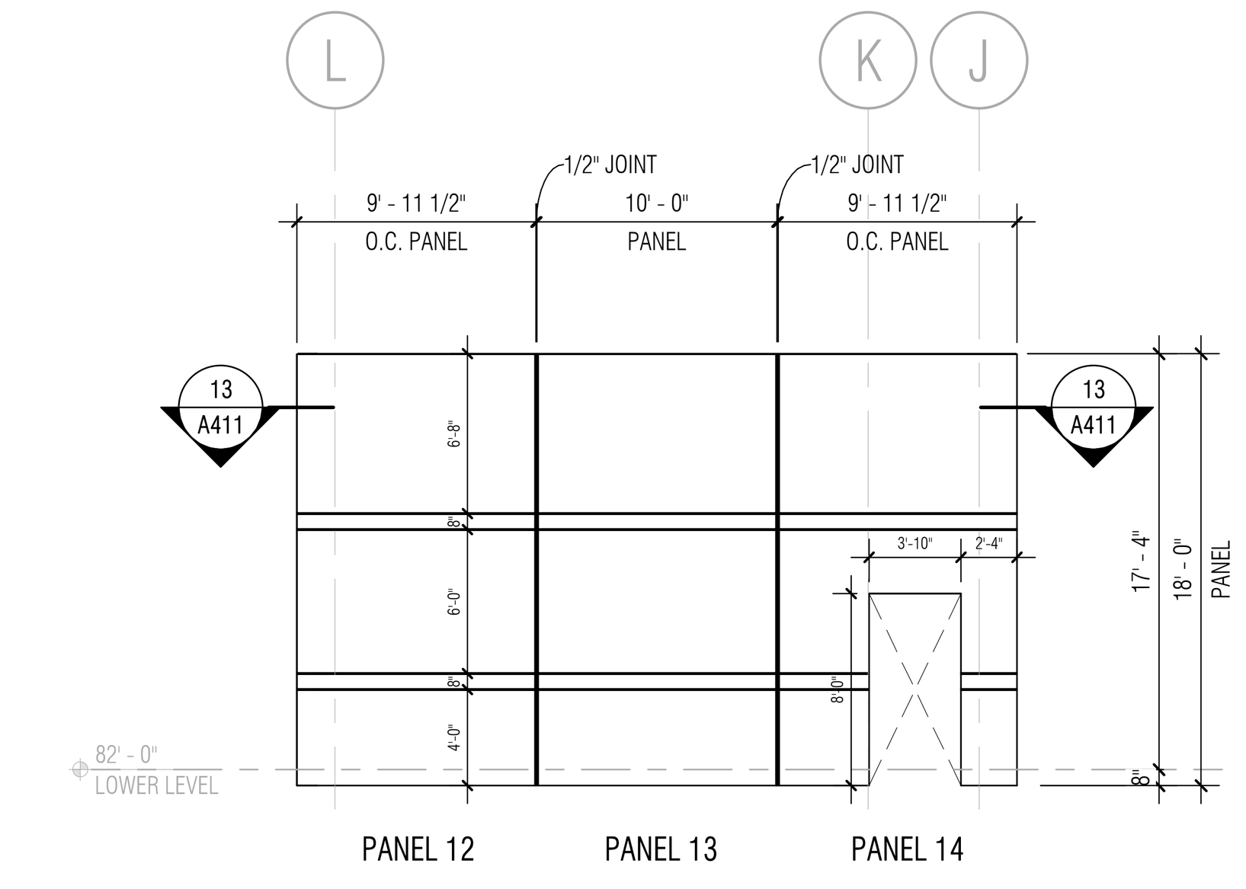
STAIR PLANS/ SECTIONS

21913
07/13/2021
A281

FOR BID



1 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



2 PANEL ELEVATION
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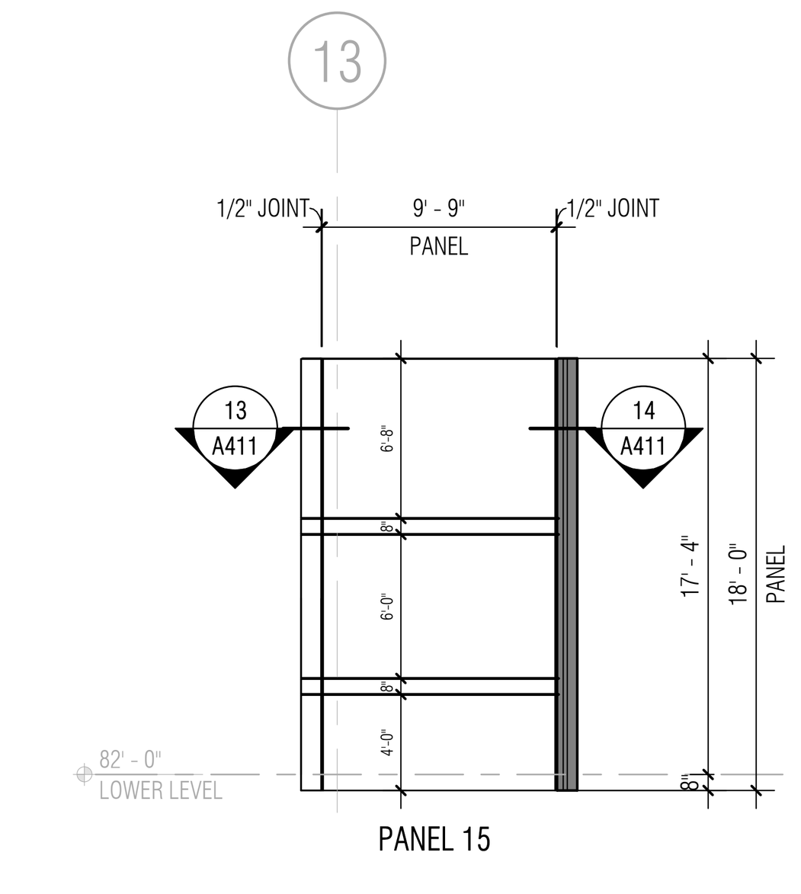
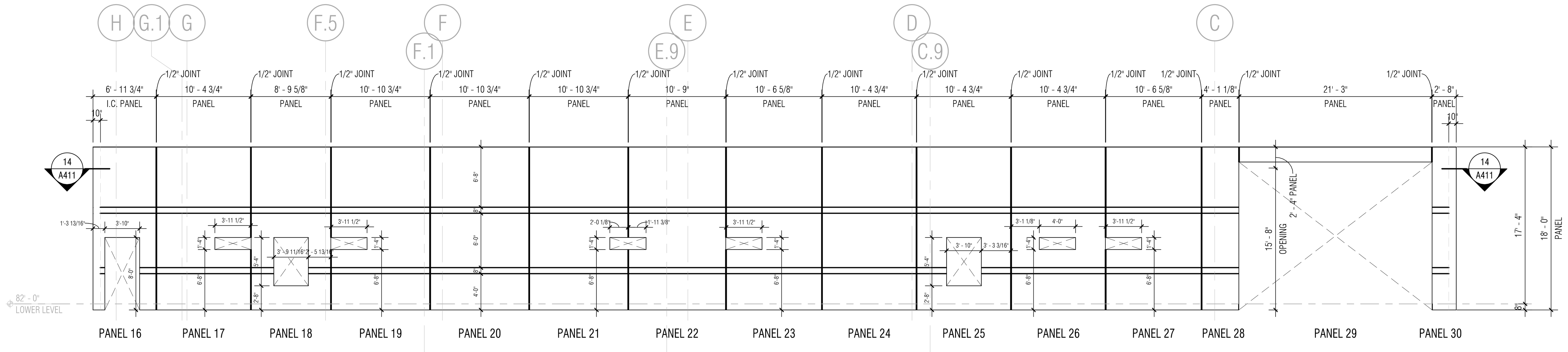
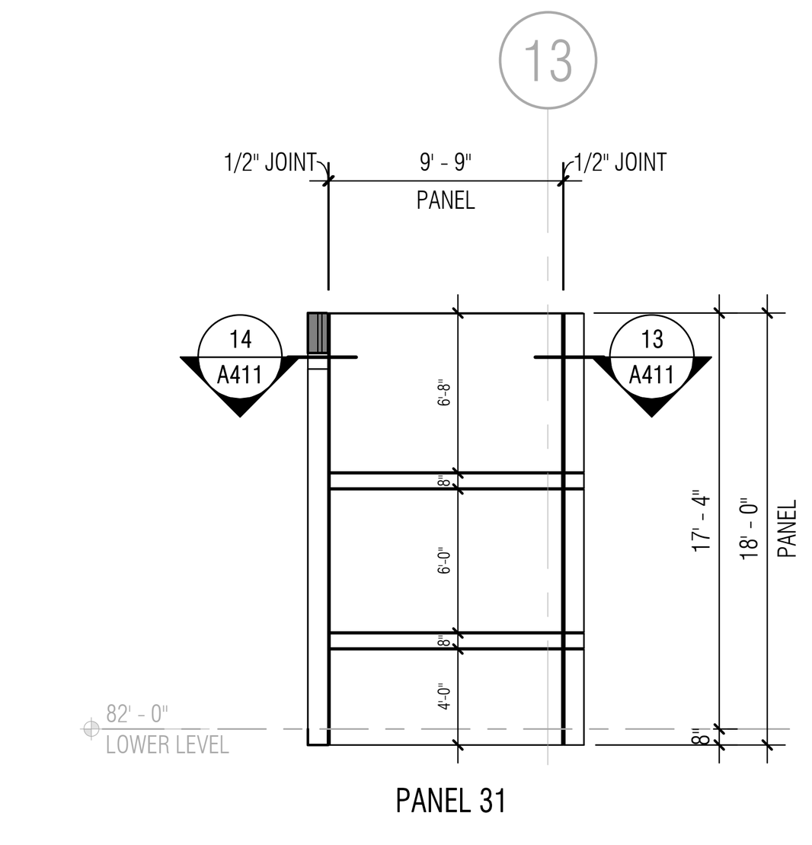


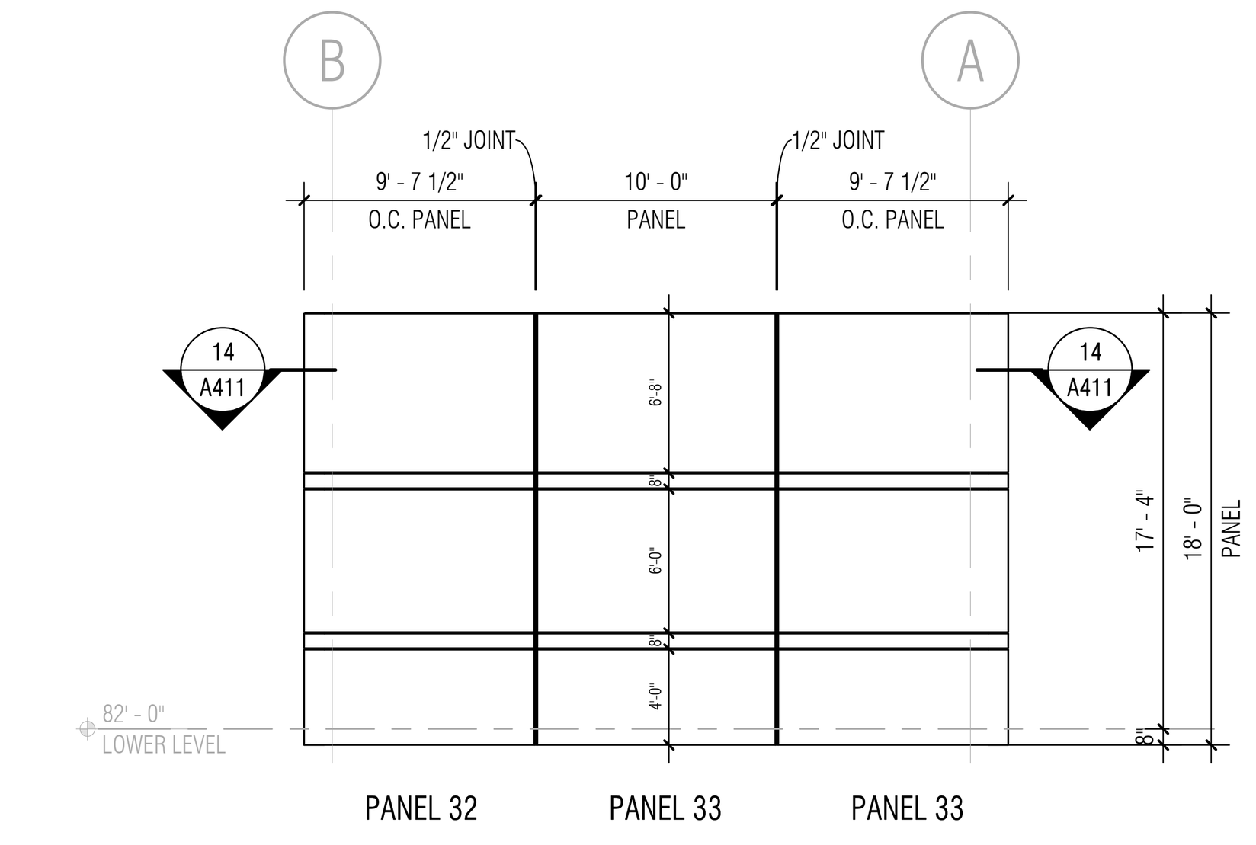
3 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



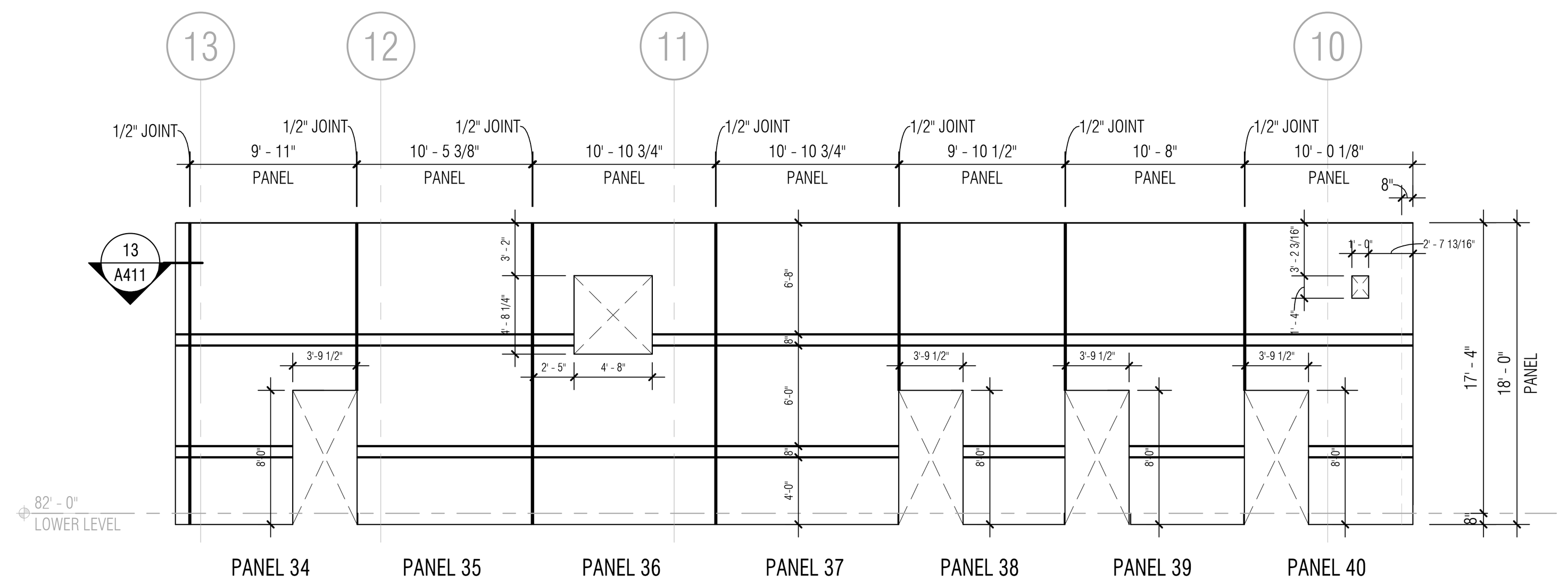
4 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



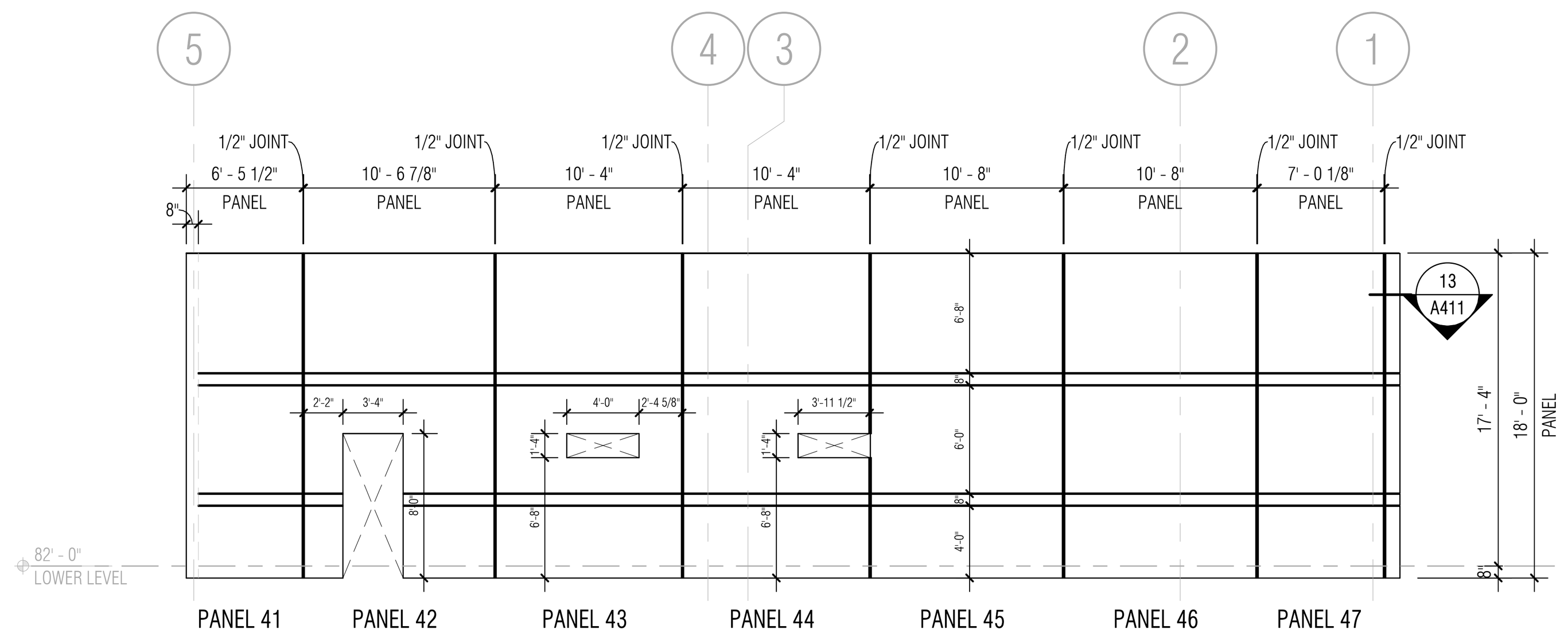
5 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



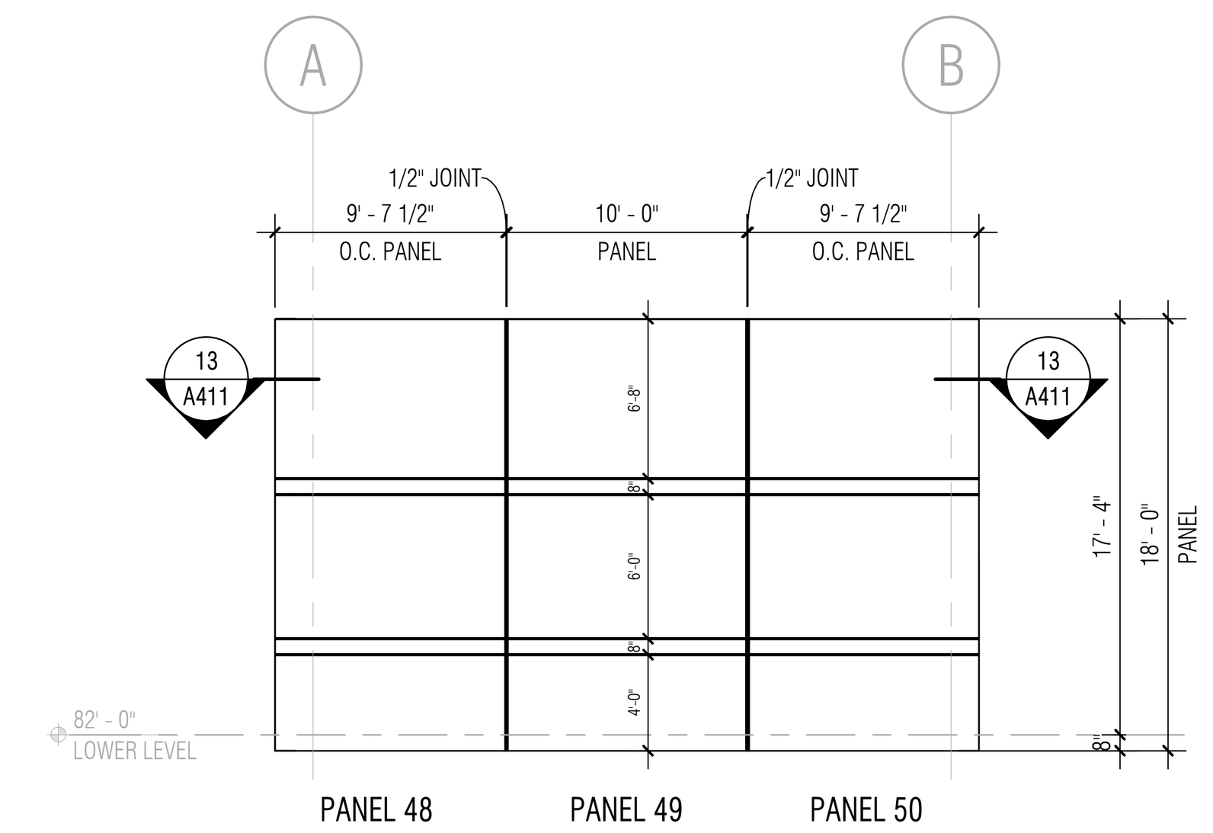
6 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



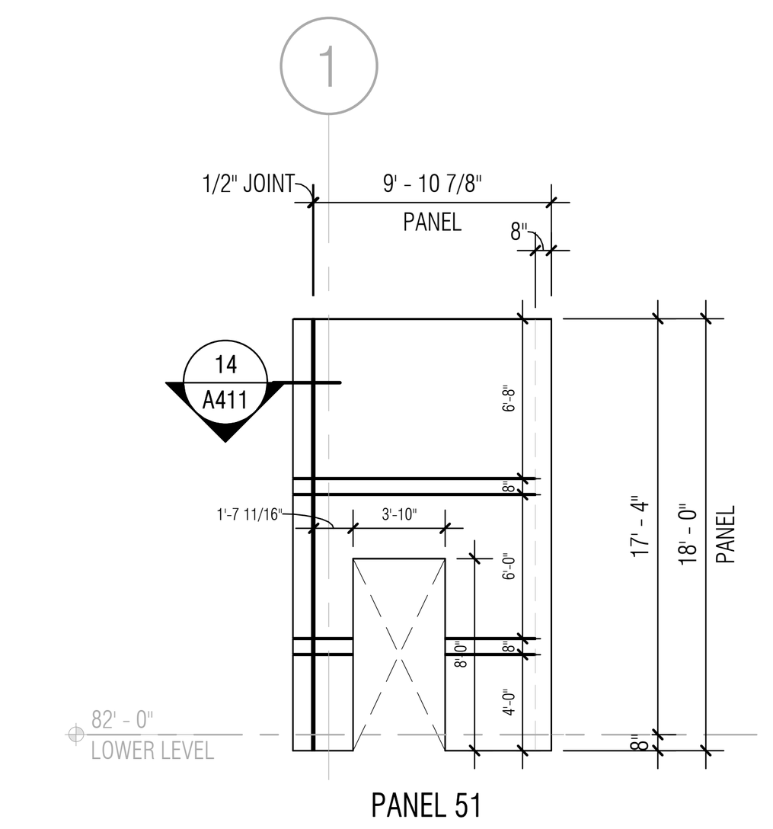
7 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



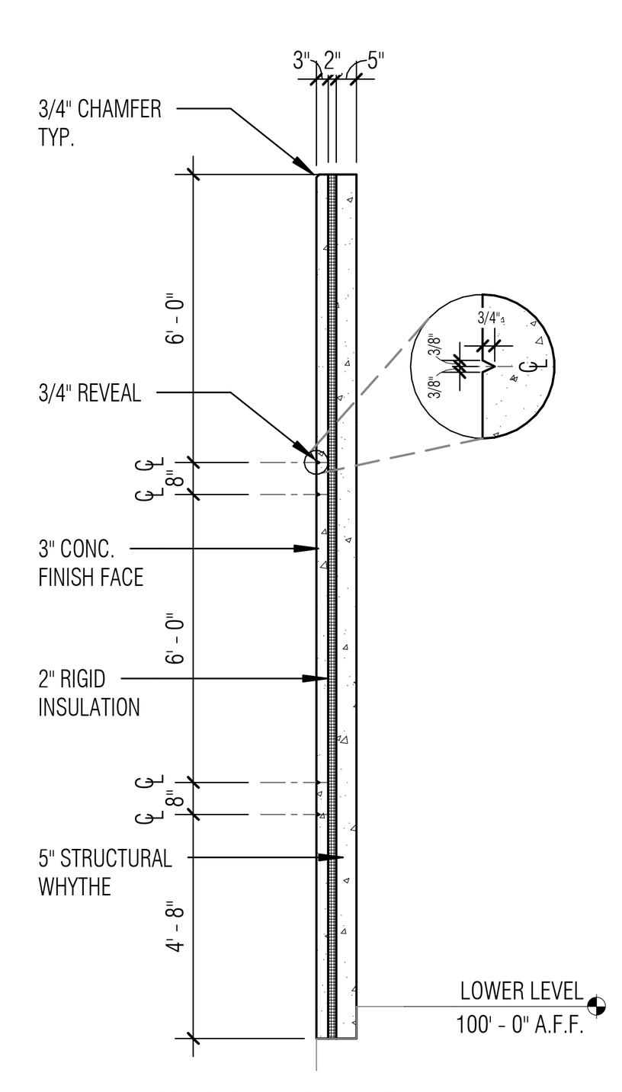
8 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



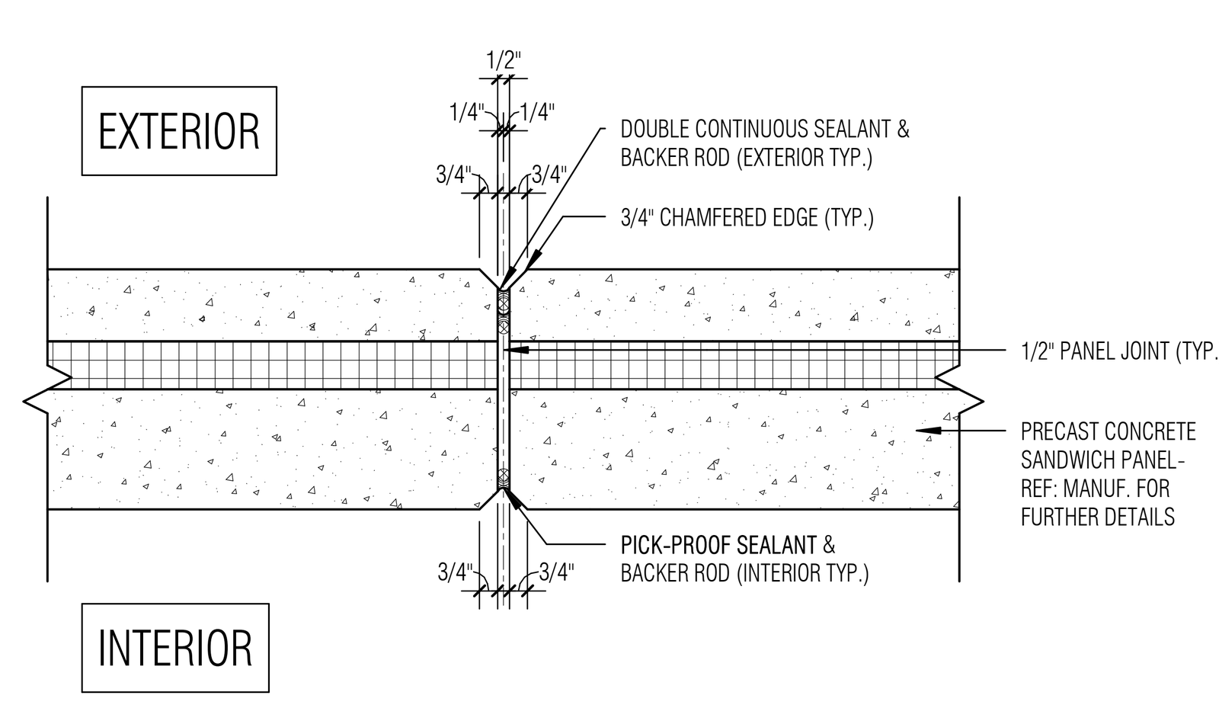
9 PANEL ELEVATION
SCALE: 1/8" = 1'-0"



10 PANEL ELEVATION
SCALE: 1/8" = 1'-0"

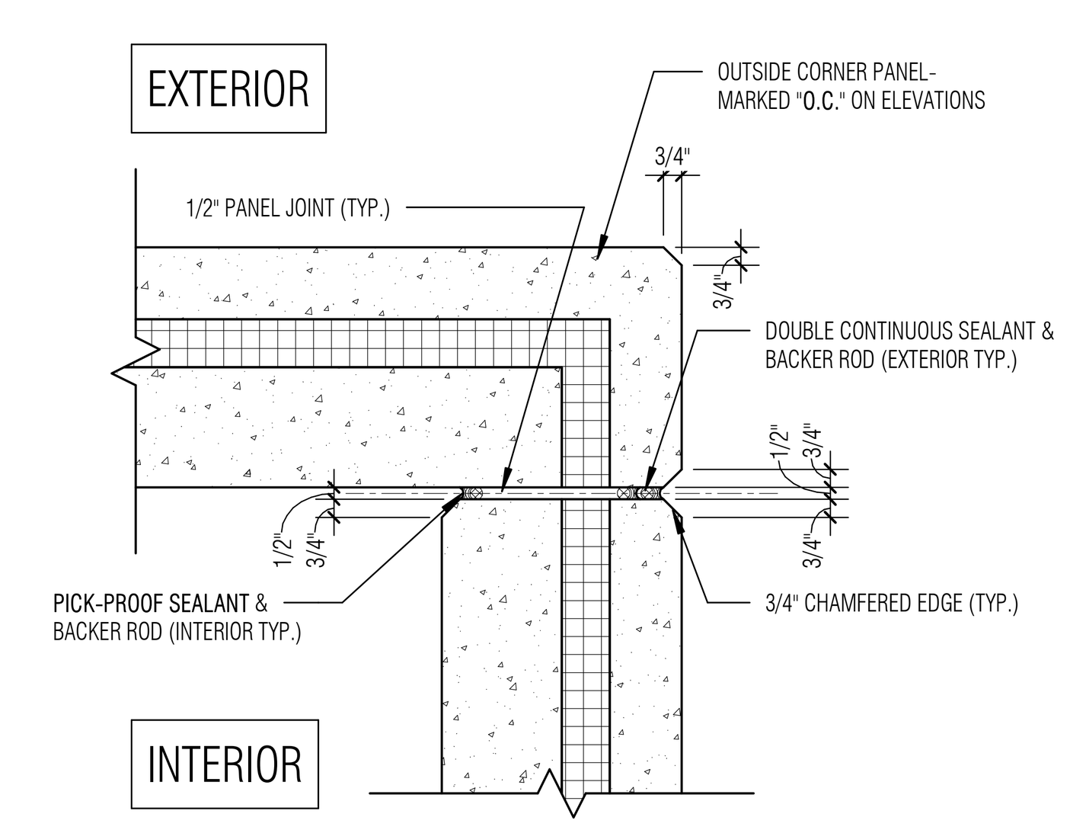


11 TYP. PANEL SECTION
SCALE: 1/4" = 1'-0"

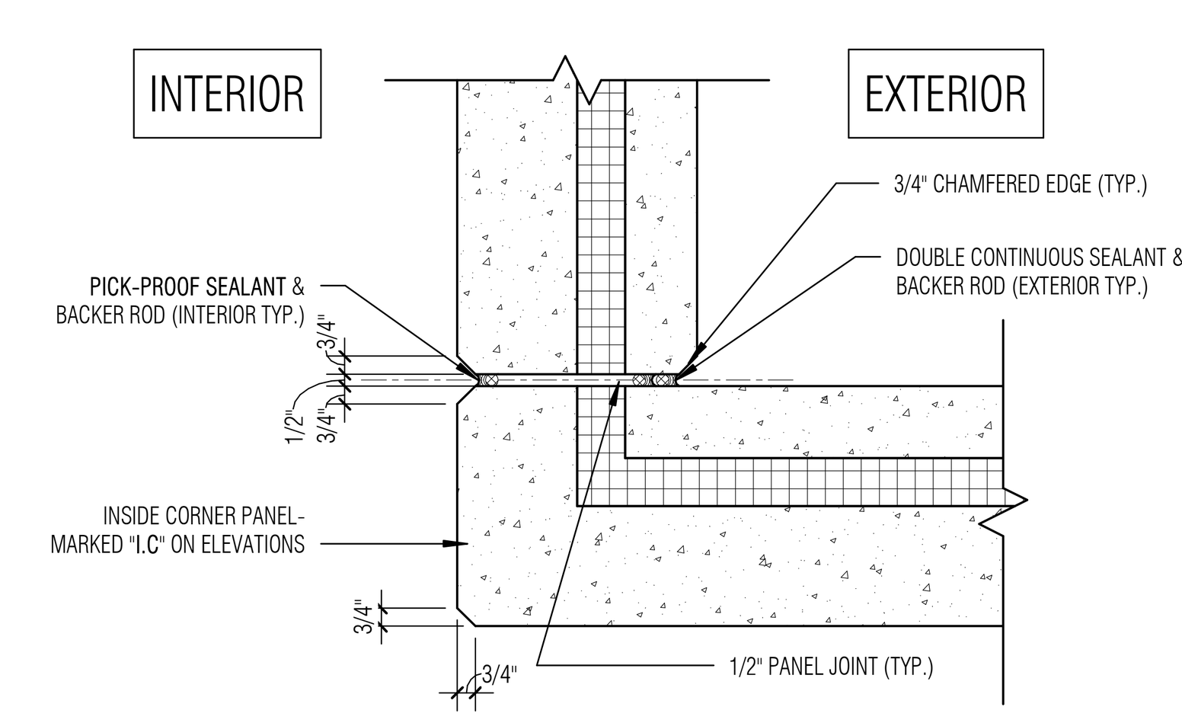


NOTE TO MANUFACTURER:
ENSURE ALL PERMANENT EXPOSED INTERIOR JOINT CONNECTIONS ARE ABOVE ADJACENT ROOM CEILING HEIGHTS, OR 10' - 0" A.F.F., WHICHEVER IS HIGHER.

12 TYP. PANEL JOINT
SCALE: 1 1/2" = 1'-0"

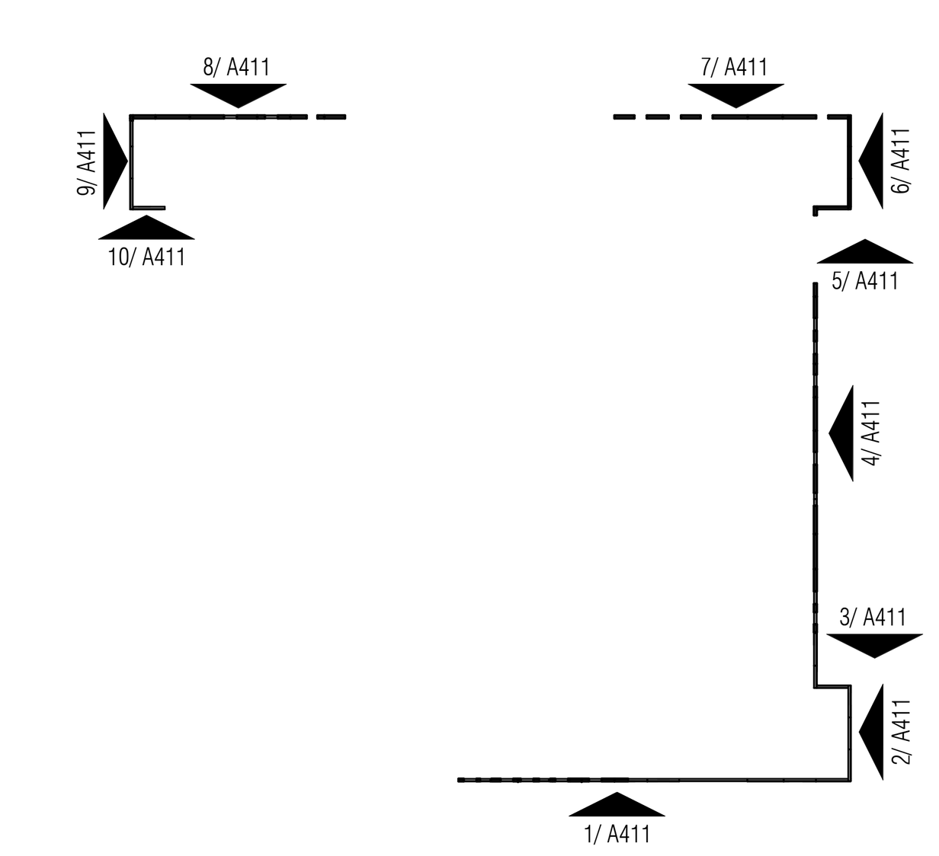


13 PANEL OUTSIDE CORNER JOINT
SCALE: 1 1/2" = 1'-0"



14 PANEL INSIDE CORNER JOINT
SCALE: 1 1/2" = 1'-0"

KEY PLAN



GENERAL NOTES

1. ALL OPENINGS FOR DUCT WORK NOT SHOWN - CONTRACTOR TO COORDINATE.
2. ELECTRICAL ROUGH-INS NOT SHOWN - CONTRACTOR TO COORDINATE.
3. FRAMING POCKETS NOT SHOWN - REF: STRUCT. FOR PRECAST PANEL FRAMING CONNECTIONS - CONTRACTOR TO COORDINATE.
4. ALL REVEALS DIMENSIONED ON PANEL ELEVATIONS ARE DIMENSIONED TO THE CENTERLINE OF THE REVEAL.
5. ALL PANEL DIMENSIONS, AND DIMENSIONS OF OPENINGS ARE FROM EDGE OF PANEL/OPENINGS
6. ALL PERMANENT EXPOSED INTERIOR JOINT CONNECTIONS ARE ABOVE ADJACENT ROOM CEILING HEIGHTS, OR 10' - 0" A.F.F., WHICHEVER IS HIGHER.
7. FINISH FACE TO BE THOROUGHLY CLEANED AND SMOOTHED. PRECAST FINISH TO MATCH EXISTING, INTEGRAL COLOR AND AGGREGATE SELECTION TO BE SELECTED TO MATCH EXISTING, SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LaFaTech (972) 633-5850
BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS
07/13/2021

PRECAST CONCRETE PANEL ELEVATIONS & DETAILS

21913
07/13/2021
A411

FOR BID

DOOR SCHEDULE												
		DOOR			DOOR		FRAME					
		SIZE										
REV NO.	#	WIDTH	HEIGHT	TYPE MARK	MAT.	FRAME MATERIAL	HEAD	JAMB	SILL	FIRE RATING	HARDWARE SETS	REMARKS
	1001A	20' - 0"	15' - 0"	W	STL	STL	13/A704	14/A704	15/A704	-	26.0	
	1001B	20' - 0"	15' - 0"	W	STL	STL	13/A704	14/A704	15/A704	-	26.0	
	1012	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	1015	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	12.0	
	1016	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	14.0	
	1018	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1019	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1025	4' - 0"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	1026	3' - 6"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	1027	3' - 6"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	1028	3' - 6"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	16.0	
△1	1029	3' - 6"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	11/A704	45	1.0	
	1108	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	17.0	
	1109	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	12.0	
	1110	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	17.0	
	1111	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	17.0	
	1113	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	19.0	
	1114	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	1115	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	1116	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	12.0	
	1127	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1128	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1131	3' - 0"	7' - 0"	C	HMTL/GL	HMTL	20/A703	15/A703		-	20.0	
	1132	3' - 0"	7' - 0"	C	HMTL/GL	HMTL	20/A703	15/A703		-	20.0	
	1133	3' - 0"	7' - 0"	C	HMTL/GL	HMTL	20/A703	15/A703		-	20.0	
	1134	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	14.0	
	1135	3' - 0"	7' - 0"	C	HMTL/GL	HMTL	20/A703	15/A703		-	17.0	
	1136	3' - 0"	7' - 2"	C	HMTL/GL	HMTL	20/A703	15/A703		-	20.0	
	1137	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	4
	1138	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	4
	1139	3' - 0"	7' - 2"	C	HMTL/GL	HMTL	20/A703	15/A703		-	21.0	
	1140	3' - 0"	7' - 2"	C	HMTL/GL	HMTL	20/A703	15/A703		-	20.0	
	1201	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	14.0	
	1205	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	8.0	10
	1206	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	12.0	
	1207	3' - 6"	7' - 0"	E	HMTL	HMTL	20/A703	15/A703	-	-	18.0	
	1209	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	20	1.0	
	1210A	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1210B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1210C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1210D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1211A	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1211B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1211C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1211D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1213	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	8.0	10
	1304A	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1304B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1304C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1304D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1305A	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1305B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1305C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1305D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1306	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	1307	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	12.0	
	1308	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	10.0	10
	1309	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	17.0	
	1311	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	6.0	
	1312	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	23.0	
	1315	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	23.0	
	1318	4' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	60	14.0	
	1331A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	25.0	
	1331B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	

DOOR SCHEDULE												
		DOOR			DOOR		FRAME					
		SIZE										
REV NO.	#	WIDTH	HEIGHT	TYPE MARK	MAT.	FRAME MATERIAL	HEAD	JAMB	SILL	FIRE RATING	HARDWARE SETS	REMARKS
	1331C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1331D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1331E	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1332	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	14.0	
	1333A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	25.0	
	1333B	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1333C	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1333D	2' - 6"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1333E	3' - 0"	7' - 0"	AU	HMTL	HMTL	20/A703	15/A703	6/A703	-	24.0	
	1402	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	21.0	
	1403	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	21.0	
	1404A	4' - 0"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	5.0 △1	10
	1404B	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	5.1	10
	1406A	6' - 4"	7' - 0"	A2	HMTL	HMTL	9/A704	8/A704	12/A704 SIM	90	4.0	MAGNETIC HOLD OPEN
	2002	3' - 6"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	16.0	
	2004	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	2006	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	7.0	
	2013	6' - 0"	7' - 0"	E2	HMTL	HMTL	20/A703	15/A703	-	-	3.0	
	2015	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	8.0	10
	2019	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	21.0	
	2020	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	21.0	
	2021	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	21.0	
	2023	6' - 0"	7' - 0"	A2	HMTL	HMTL	20/A703	15/A703	-	-	2.0	
	2024	7' - 0"	7' - 0"	A2	HMTL	HMTL	9/A704	8/A704	12/A704 SIM	90	4.0	MAGNETIC HOLD OPEN
	2025	3' - 0"	7' - 2"	C	HMTL/GL	HMTL	20/A703	15/A703		20	21.0	
	2098	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	9.0	
	2103A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	20	7.0	
	2104A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	6.0	
	2105	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	2106	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	15.0	
	2110	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	45	15.0	
	2112	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	45	15.0	
	2124	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	14.0	
	2203A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	20	7.0	
	2204A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	6.0	
	2205	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	2206	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	15.0	
	2219	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	2303A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	20	7.0	
	2304A	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	6.0	
	2305	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	22.0	
	2306	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	15.0	
	2309	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	2318	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	2319	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	3101	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	45	15.0	
	3103	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	45	15.0	
	3115	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	15.0	
	3211	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	3307	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	3308	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	13.0	
	CH01	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	15.0	
	CH02	2' - 6"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	-	15.0	
	CH04A	3' - 0"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	CH04B	3' - 0"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	CH05	3' - 0"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	CH07	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	15.0	
	CH08	2' - 6"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	CH09	2' - 6"	7' - 0"	A	HMTL	HMTL	7/A704	6/A704	11/A704	45	1.0	
	OS1B	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	7.0	
	ST04B	3' - 0"	7' - 0"	A	HMTL	HMTL	20/A703	15/A703	-	90	11.0	
	ST07A	7' - 0"	7' - 0"	A2	HMTL	HMTL	9/A704	8/A704	12/A704 SIM	60	4.0	MAGNETIC HOLD OPEN
	ST07B	7' - 0"	7' - 0"	A2	HMTL	HMTL	9/A704	8/A704	12/A704 SIM	60	4.0	MAGNETIC HOLD OPEN

DOOR SCHEDULE LEGEND

ABBREVIATIONS
ALUM ALUMINUM
AL/GL ALUMINUM & GLASS
DHM DETENTION GRADE HOLLOW METAL
FRP FIBERGLASS REINFORCED PLASTIC
HMTL HOLLOW METAL
STL STEEL
WD/GL WOOD & GLASS

REMARKS
CR CARD READER
CK CARD READER W/ KEYPAD
B BIOMETRIC READER
BK BIOMETRIC W/ KEYPAD
MC MECHANICAL KEYPAD
120DG 120 VOLT DETENTION GRADE LOCK
24DG 24 VOLT DETENTION GRADE LOCK
JC JAIL ACCESS CONTROL
PP PUSH PAD AUTO DOOR CONTROL

OVERHEAD DOOR REMARKS (SECTIONAL AND COILING)
ALL OVERHEAD DOORS TO BE POWERED UNLESS NOTED OTHERWISE IN REMARKS AS "MANUAL"

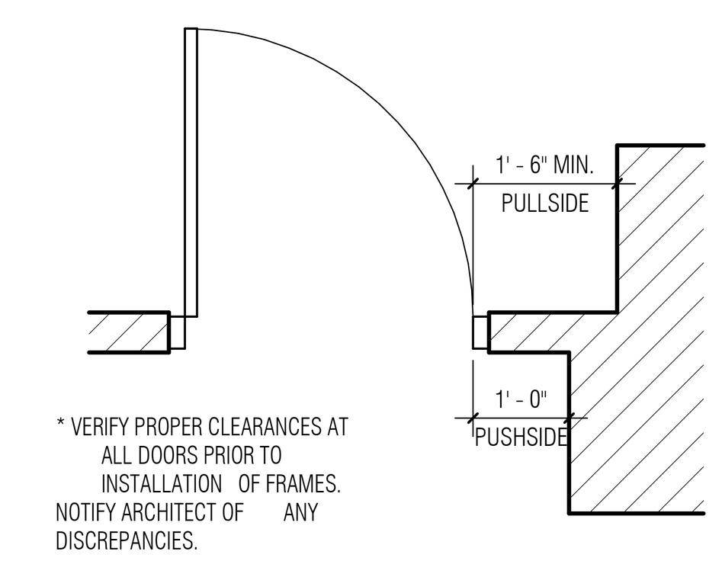
SECTIONAL OVERHEAD DOOR REMARKS
SECTIONAL OVERHEAD DOORS TO HAVE STANDARD LIFT TRACK UNLESS NOTED OTHERWISE

T2 LIFT CLEARANCE TRACK
T3 FULL VERTICAL TRACK

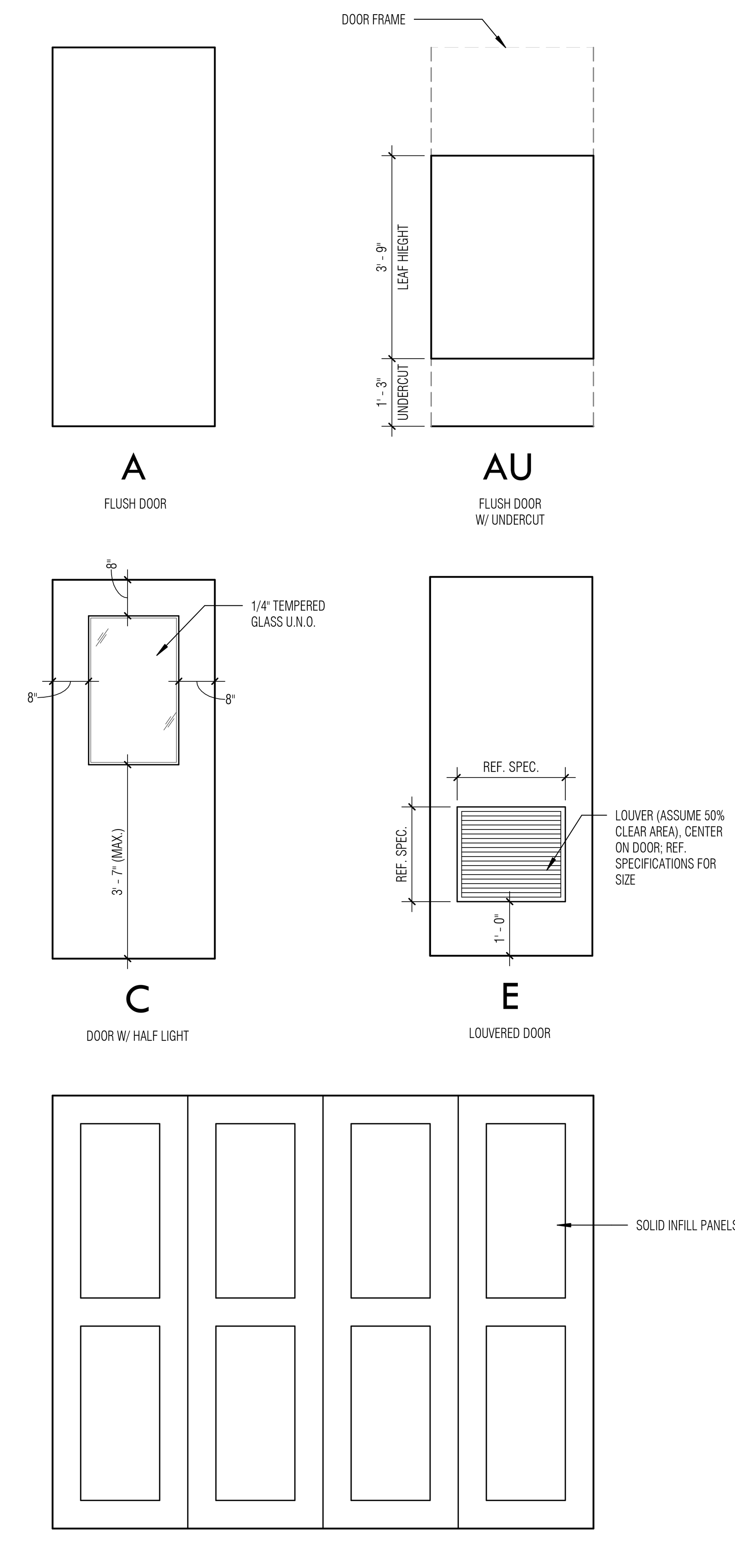
ADDITIONAL REMARKS
1. WEATHERSTRIPPING
2. SOUND SEAL
3. DOOR CONTACT
4. W/ DEAD BOLT
5. RAIN DRIP
6. 12" KICK PLATE
7. 36" KICK PLATE
8. FLUSH BOLT
9. ELECTRIC FUNCTION LOCKSET
10. ACCESS CONTROL REF: "ES" SHEETS

GENERAL DOOR SCHEDULE NOTE:
NUMERICAL SUFFIX FOLLOWING DOOR DESIGNATION IS EQUAL TO NUMBER OF DOORS IN OPENING.
EXAMPLE: "A2" = (2) TYPE A DOORS

DOOR HARDWARE NOTE:
ALL DOORS TO HAVE TWO SET HINGES (4), COMMERCIAL AND DETENTION DOORS



TYP. PUSH-PULL CLEARANCE



A
FLUSH DOOR

AU
FLUSH DOOR W/ UNDERCUT

C
DOOR W/ HALF LIGHT

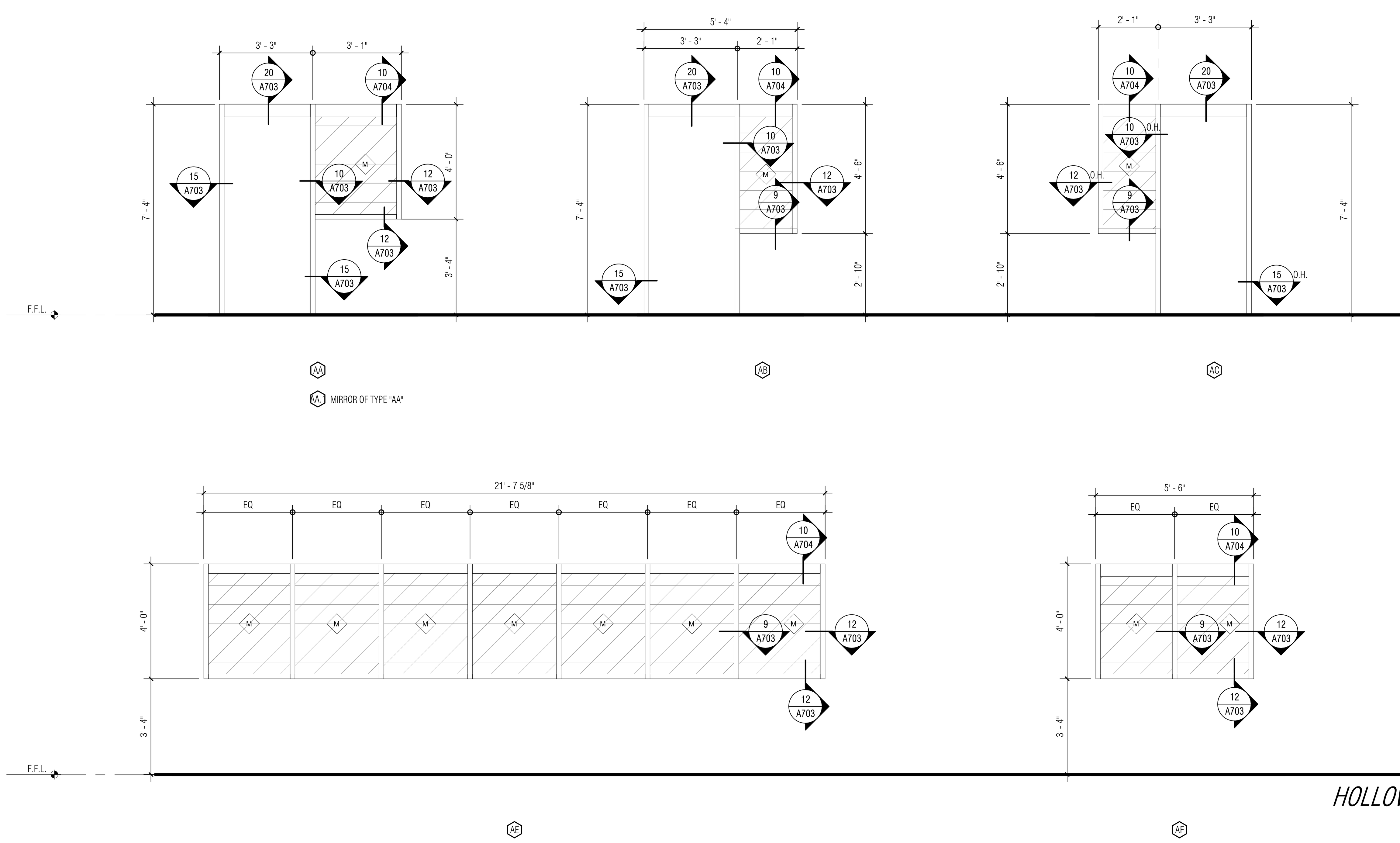
E
LOUVERED DOOR

W
4-FOLD DOOR

GLAZING SCHEDULE (INTERIOR)

NO.	TYPE
A	CLEAR
AF	FROSTED
B	3/8" CLEAR
L	SECURITY GLAZING, 5/8" TEMPERED
M	SECURITY GLAZING, MEDIUM
H	SECURITY GLAZING, HIGH
HM	STEEL SECURITY MESH
STL	1/4" STEEL PLATE
W	INTERIOR INSULATED GLAZING
WF	INTERIOR INSULATED GLAZING, FROSTED (#3)
WM	INTERIOR INSULATED GLAZING, COLOR LAMINATED FOR IMPACT RESISTANCE AND OPACITY

SHEET NOTES:
1. ALL INTERIOR GLAZING TYPE 'A' UNLESS NOTED OTHERWISE



HOLLOW METAL FRAME TYPES

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT CHARLES L. GOODMAN 21598 STATE OF TEXAS
07/13/2021

DOOR SCHEDULE, DOOR TYPES, & FRAME ELEVATIONS

21913
07/13/2021
A702

FOR BID

ROOM FINISH SCHEDULE

#	NAME	FLOOR	BASE	WALL N	WALL S	WALL E	WALL W	FINISH NOTES
1001	VEHICLE SALLYPORT	SC	PB1	P1	P1	P1	P1	
1002	SAFETY VEST.	CPT1	RB1	P2	P2	P2	P2	
1003	PRE-BOOKING WAITING	VS1	RB1	--	--	--	--	5
1004	PRE-BOOKING	VS1	RB1	P1	P1	P1	P1	
1005	ARRESTING OFF. WK AREA	VS1	RB1	--	--	--	--	5
1006	INTOX.	SC	--	P1	P1, P4	P1	P1	6
1007	HOLDING CELL ADA [4]	SC	--	P3	P3	P3	P3	
1008	HOLDING CELL [1]	SC	--	P3	P3	P3	P3	
1009	HOLDING CELL [1]	SC	--	P3	P3	P3	P3	
1011	HOLDING CELL [1]	SC	--	P3	P3	P3	P3	
1012	STAFF RR	RES1	B1	EP1	EP1	EP1	EP1	
1014	PRINT	VS1	RB1	P1	P1	P1	P1	
1015	STO.	VS1	RB1	P1	P1	P1	P1	
1016	JAN.	SC	--	P1	P1	P1	P1	
1017	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1018	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1021	HEALTH SCREEN	VS1	RB1	P1	P1	P1	P1	
1022	HEALTH SCREEN	VS1	RB1	P1	P1	P1	P1	
1023	PRE-BOOKING	VS1	RB1	P1	P1	P1	P1	
1024	HOLDING CELL ADA (4)	SC	--	P3	P3	P3	P3	
1025	FIRE	SC	--	--	--	--	--	
1026	ELEC	SC	--	--	--	--	--	
1027	MECH	SC	--	--	--	--	--	
1028	STORAGE	SC	--	--	--	--	--	
1029	PUMP	SC	--	--	--	--	--	
1101	SAFETY VEST.	CPT1	RB1	P2	P2	P2	P2	
1102	BOOKING WORK AREA	VS1	RB1	P1	P1	P1	P1	
1103	BOOKING COORD. (SGT.)	CPT2	RB1	--	--	--	--	
1104	BOOKING	VS1	RB1	P1	P1	P1	P1	5
1105	FEMALE OPEN WAITING	CPT2	RB1	--	--	--	P2	
1106	MALE OPEN WAITING	CPT2	RB1	--	--	P2	--	
1107	AFIS/ FINGER	VS1	RB1	P1	P1	P1	P1	
1108	BOOKING/ RELEASE/ CLASS. SUPV.	CPT2	RB1	P1	P1	P1	P1	
1109	JAN.	SC	--	P1	P1	P1	P1	
1110	ADMISSIONS/ RELEASE MGR.	CPT2	RB1	P1	P1	P1	P1	
1111	OFFICE	CPT2	RB1	P1	P1	P1	P1	
1112	PRINT/ COPY/ WORK ALCOVE	VS1	RB1	P1	P1	P1	P1	
1113	STAFF BREAK ROOM	VS1	RB1	P1	P1	P1	P1	
1114	STAFF RR	VS1	RB1	EP1	EP1	EP1	EP1	
1115	STAFF RR	VS1	RB1	EP1	EP1	EP1	EP1	
1116	JAN.	SC	--	P1	P1	P1	P1	
1117	CORRIDOR	VS1	RB1	P1	P1	P1	P1	
1118	HC DETOX CELL [5]	SC	--	P3	P3	P3	P3	
1119	DETOX CELL [2]	SC	--	P3	P3	P3	P3	
1121	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1122	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1123	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1124	HOLDING CELL ADA [5]	SC	--	P3	P3	P3	P3	
1125	HOLDING CELL [5]	SC	--	P3	P3	P3	P3	
1126	HOLDING CELL [5]	SC	--	P3	P3	P3	P3	
1127	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1128	ADA INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1129	COURT ROOM	CPT2	RB1	P3	P1	P1	P1	
1130	SAFETY VEST.	CPT1	RB1	P2	P2	P2	P2	
1131	INTERVIEW	CPT2	RB1	WC1	P1	WC1	P1	
1132	INTERVIEW	CPT2	RB1	WC1	P1	WC1	P1	
1133	INTERVIEW	CPT2	RB1	WC1	P1	WC1	P1	
1134	MED STO.	VS1	RB1	P1	P1	P1	P1	
1135	MENTAL HEALTH SCREENING	VS1	RB1	P1	P1	P1	P3	
1136	MENTAL HEALTH SCREENING	VS1	RB1	P1	P1	P1	P3	
1137	ADA INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1138	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1139	HEALTH EXAM	VS1	RB1	P1	P1	P1	P3	
1140	HEALTH EXAM	VS1	RB1	P1	P1	P1	P3	
1141	BODY SCAN/ MTL. DETC.	VS1	RB1	P1	P1	P1	P1	
1200	TRANSFER STAGING	VS1	RB1	P1	P1	P1	P1	
1201	JAN	SC	--	P1	P1	P1	P1	
1202	RELEASE STAGING	VS1	RB1	P1	--	P1	P1	
1203	PROPERTY STORAGE ROOM	VS1	RB1	P1	P1	P1	--	
1204	PROPERTY COLLECTION	VS1	RB1	--	P1	P1	P1	
1205	VAL PROP. STO	VS1	RB1	P1	P1	P1	P1	
1206	JAIL CLOTHING STORAGE	VS1	RB1	P1	P1	P1	P1	
1207	LAUNDRY	VS1	RB1	P1	P1	P1	P1	
1208	CORRIDOR	VS1	RB1	P2	P2	P2	P2	
1209	STAFF RR	VS1	RB1	EP1	EP1	EP1	EP1	
1210	FEMALE SHOWER/ SEARCH	VS1/ RES1	RB1/ B1	EP1	EP1	EP1	EP1	4
1211	MALE SHOWER/ SEARCH	VS1/ RES1	RB1/ B1	EP1	EP1	EP1	EP1	4
1213	IT	SD1	RB1	P1	P1	P1	P1	
1301	CORRIDOR	VS1	RB1	P2	P2	P2	P2	
1302	INMATE VISIT	SC1	PB1	P1	P1	P1	P1	
1303	INMATE VISIT	SC1	PB1	P1	P1	P1	P1	
1304	FEMALE CHANGING CUBICLES	VS1	RB1	P1	P1	P1	P1	
1305	MALE CHANGING CUBICLES	VS1	RB1	P1	P1	P1	P1	
1306	RR STAFF	VS1	RB1	EP1	EP1	EP1	EP1	
1307	ELEC. MON. VEND.	VS1	RB1	P1	P1	P1	P1	
1308	RECORDS/ BOND OFFICE STATION	CPT2	RB1	P1	P1	P1	P1	
1309	BONDING SUPV.	CPT2	RB1	P1	P1	P1	P1	
1311	RELEASE PROCESSING STATION	CPT2	RB1	P1	P1	P1	P1	
1312	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1313	SAFETY VEST.	VS1	RB1	P2	P2	P2	P2	
1314	OPEN WAIT. - SELF REPORTS	VS1	RB1	P1	P1	P1	P1	
1315	INMATE RR	RES1	B1	EP1	EP1	EP1	EP1	
1316	SAFETY VEST.	VS1	RB1	P2	P2	P2	P2	
1317	SAFETY VEST	VS1	RB1	P2	P2	P2	P2	
1318	ELEV. MACHINE ROOM	VS1	RB1	P2	P2	P2	P2	
1319	OPEN WAITING TRANSFER	VS1	RB1	--	--	--	--	
1320	TRANSFER	VS1	RB1	P1	P1	P1	P1	
1321	TRANSFER COORD.	VS1	RB1	P1	P1	P1	--	
1322	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1323	SECURE HOLDING CELL ADA [8]	SC	--	P3	P3	P3	P3	
1324	SAFETY VEST.	CPT1	RB1	P2	P2	P2	P2	
1325	SECURE HOLDING CELL ADA [7]	SC	--	P3	P3	P3	P3	
1326	SECURE HOLDING CELL [8]	SC	--	P3	P3	P3	P3	
1327	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1328	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1329	HOLDING CELL ADA [3]	SC	--	P3	P3	P3	P3	
1330	HOLDING CELL [3]	SC	--	P3	P3	P3	P3	
1331	MALE CHANGING	VS1/ RES1	RB1/ B1	P1	P1	P1	P1	4
1332	JAN.	SC	--	P1	P1	P1	P1	
1333	FEMALE CHANGING	VS1/ RES1	RB1/ B1	P1	P1	P1	P1	4
1402	ATTY. VISIT	VS1	RB1	P1	P1	P1	P1	
1403	ATTY. VISIT	VS1	RB1	P1	P1	P1	P1	
1404	ELEC.	SC	--	P1	P1	P1	P1	
1405	CORRIDOR	VS1	RB1	P2	P2	P2	P2	

#	NAME	FLOOR	BASE	WALL N	WALL S	WALL E	WALL W	FINISH NOTES
1406	CORRIDOR	VS1	RB1	P2	P2	P2	P2	
2001	CORR.	VS1	RB1	P2	P2	P2	P2	
2002	STORAGE ROOM	VS1	RB1	P1	P1	P1	P1	
2003	BREAK ROOM	VS1	RB1	P1	P1	P1	P1	
2004	STAFF TOILET	VS1	RB1	EP1	EP1	EP1	EP1	
2005	CORR.	VS1	RB1	P2	P2	P2	P2	
2007	CORR.	VS1	RB1	P1	P2	P2	P2	1
2008	CORR.	VS1	RB1	P1, P2	P1, P2	P1, P2	P1, P2	1
2009	VISIT	SC	PB1	P1	P1	P1	P1	
2010	VISIT	SC	PB1	P1	P1	P1	P1	
2011	VISIT	SC	PB1	P1	P1	P1	P1	
2012	CLUSTER CONTROL STATION	CPT2	RB1	P1	P1	P1	P1	
2013	MATTRESS STORAGE	VS1	RB1	P1	P1	P1	P1	
2014	MECH.	SC	--	--	--	--	--	
2015	IT	SD1	RB1	P1	P1	P1	P1	
2017	IT	SC	--	--	--	--	--	
2018	SAFETY VEST.	VS1	RB1	P2	P2	P2	P2	
2019	VISIT	VS1	RB1	P1	P1	P1	P1	
2020	VISIT	VS1	RB1	P1	P1	P1	P1	
2021	VISIT	VS1	RB1	P1	P1	P1	P1	
2022	CORR.	VS1	RB1	P2	P2	P2	P2	
2023	CORR.	VS1	RB1	P2	P2	P2	P2	
2024	INMATE TRANSFER/CIRCULATION	VS1	RB1	P2	P2, CR1	P2	P2	
2101	DAYROOM/ DINING/ TV	SC/ CPT3	PB1	P1	P1, VWC1	P1	P1	1, 8
2102	HOUSING OFFICER WK.STATION	CPT3	PB1	P1	P1	P1	P1	
2103	MED. DISTR.	VS1	RB1	P1	P1	P1	P1	
2104	MULTIPURPOSE	VS2	RB1	P1	P1	P3	P1	
2105	STAFF RESTROOM	RES1	B1	EP1	EP1	EP1	EP1	
2106	ELECT. STO./ RECHARGE	SC	--	P1	P1	P1	P1	
2107	MULTIFUNCTIONAL KIOSK	VS2	RB1	P1	P1	P1	P1	
2108	OUTDOOR EXERCISE YARD	SC	--	BRICK	BRICK	BRICK	BRICK	
2110	STORAGE	SC	--	P1	P1	P1	P1	
2111	DORMITORY	SC	PB1	P3	P3	--	P3	
2112	STORAGE	VS1	RB1	P2	P2	P2	P2	
2113	DORMITORY	SC	PB1	P3	--	P3	P3	
2114	SHOWER	RES2	B2	EP1	--	EP1	EP1	4
2115	INMATE RESTROOM	RES2	B2	EP1	--	EP1	EP1	
2116	INMATE RESTROOM	RES2	B2	EP1	--	EP1	EP1	
2117	HC DORMITORY	SC	PB1	P3	--	P3	P3	
2118	DORMITORY	SC	PB1	P3	P3	P3	--	
2119	DORMITORY	SC	PB1	P3	P3	P3	--	
2121	DORMITORY	SC	PB1	P3	P3	P3	--	
2122	DORMITORY	SC	PB1	P3	P3	P3	--	
2123	DORMITORY	SC	PB1	P3	P3	P3	--	
2124	JAN.	SC	--	P1	P1	P1	P1	
2125	DORMITORY	SC	PB1	P3	P3	P3	--	
2201	DAYROOM/ DINING/ TV	SC/ CPT3	PB1	P1, VWC1	P1	P1	P1	1, 8
2202	HOUSING OFFICER WK.STATION	CPT3	PB1	P1	P1	P1	P1	
2203	MED. DISTR.	VS1	RB1	P1	P1	P1	P1	
2204	MULTIPURPOSE	VS2	RB1	P1	P1	P3	P1	
2205	STAFF RESTROOM	RES1	B1	EP1	EP1	EP1	EP1	
2206	ELECT. STO./ RECHARGE	SC	--	P1	P1	P1	P1	
2207	MULTIFUNCTIONAL KIOSK	CPT3	RB1	P1	P1	P1	P1	
2208	OUTDOOR EXERCISE YARD	SC	--	BRICK	BRICK	BRICK	BRICK	
2209	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2211	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2212	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2213	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2214	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2215	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2216	HC DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2217	INMATE TOILET	RES2	B2	--	EP1	EP1	EP1	
2218	SHOWER	RES2	B2	--	EP1	EP1	EP1	4
2219	JAN.	SC	--	P1	P1	P1	P1	
2221	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2222	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2223	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2225	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2226	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2227	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2228	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2229	INMATE TOILET	RES2	B2	EP1	EP1	EP1	EP1	
2231	STORAGE	SC	--	P1	P1	P1	P1	
2232	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2233	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2234	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2235	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
2301	DAYROOM/ DINING/ TV	SC/ CPT3	PB1	P1	P1	P1	P1, VWC1	1, 8
2302	HOUSING OFFICER WK.STATION	CPT3	PB1	P1	P1	P1	P1	
2303	MED. DISTR.	VS1	RB1	P1	P1	P1	P1	
2304	MULTIPURPOSE ROOM	CPT3	PB1	P1	P1	P1	P3	
2305	STAFF RESTROOM	RES2	B2	EP1	EP1	EP1	EP1	
2306	ELECT. STO./ RECHARGE	SC	--	P1	P1	P1	P1	
2307	MULTIFUNCTIONAL KIOSK	CPT3	PB1	P1	P1	P1	P1	
2308	OUTDOOR EXERCISE YARD	SC	--	BRICK	BRICK	BRICK	BRICK	
2309	STORAGE	SC	--	P1	P1	P1	P1	
2311	DORMITORY	SC	PB1	P3	P3	P3	--	
2312	DORMITORY	SC	PB1	P3	P3	P3	P3	
2313	DORMITORY	SC	PB1	--	P3	P3	P3	
2314	INMATE TOILET	RES2	B2	--	EP1	EP1	EP1	
2315	INMATE SHOWER	RES2	B2	--	EP1	EP1	EP1	4
2316	HC DORMITORY	RES2	B2	--	P3	P3	P3	
2317	DORMITORY	SC	PB1	--	P3	P3	P3	
2318	J.C	SC	--	P1	P1	P1	P1	
2319	STORAGE	SC	PB1	P1	P1	P1	P1	
3101	STORAGE	SC	--	P1	P1	P1	P1	
3102	DORMITORY	SC	PB1	P3	P3	--	P3	
3103	STORAGE	SC	--	P1	P1	P1	P1	
3104	DORMITORY	SC	PB1	P3	--	P3	P3	
3105	SHOWER/ CHANGING	RES2	B2	EP1	--	EP1	EP1	4
3106	INMATE RESTROOM	RES2	B2	EP1	--	EP1	EP1	
3107	INMATE RESTROOM	RES2	B2	EP1	--	EP1	EP1	
3108	DORMITORY	SC	PB1	P3	--	P3	P3	
3109	DORMITORY	SC	PB1	P3	P3	P3	--	
3111	DORMITORY	SC	PB1	P3	P3	P3	--	
3112	DORMITORY	SC	PB1	P3	P3	P3	--	
3113	DORMITORY	SC	PB1	P3	P3	P3	--	
3114	DORMITORY	SC	PB1	P3	P3	P3	--	
3115	JAN.	SC	--	P1	P1	P1	P1	
3116	DORMITORY	SC	PB1	P3	P3	P3	--	
3201	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3202	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3203	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	

#	NAME	FLOOR	BASE	WALL N	WALL S	WALL E	WALL W	FINISH NOTES
3206	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3207	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3208	INMATE TOILET	RES2	B2	--	EP1	EP1	EP1	
3209	INMATE SHOWERS	RES2	B2	--	EP1	EP1	EP1	4
3211	JAN.	SC	--	P1	P1	P1	P1	
3213	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3214	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3215	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3217	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3218	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3219	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3221	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3222	INMATE TOILET	RES2	B2	EP1	EP1	EP1	EP1	
3223	STORAGE	SC	--	P1	P1	P1	P1	
3224	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3225	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3226	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3227	DBL. OCC. CELL	SC	PB1	P3	P3	P3	P3	
3301	DORMITORY	SC	PB1	P3	P3	P3	P3	
3302	DORMITORY	SC	PB1	P3	P3	P3	P3	
3303	INMATE TOILET	RES2	B2	--	EP1	EP1	EP1	
3304	INMATE SHOWER	RES2	B2	--	EP1	EP1	EP1	4
3305	HC DORMITORY	SC	PB1	--	P3	P3	P3	
3306	DORMITORY	SC	PB1	--	P3	P3	P3	
3307	J.C	SC	PB1	P1	P1	P1	P1	
3308	STORAGE	SC	PB1	P1	P1	P1	P1	
EL01	ELEV.	VS1	RB1	PL1	PL1	PL1	PL1	
OS1A	CORRIDOR	VS1	RB1	P2	P2	P2	P2	
OS1B	STAIR	--	--	P2	P2	P2	P2	
ST01	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST02	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST03	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST04	STAIR	SC	--	--	--	--	--	7
ST05	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST06	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST07	STAIR	RF1	RB1	P2	P2	P2	P2	7
ST07	STAIR	RF1	RB1	P2	P2	P2	P2	7

GENERAL NOTES

1. REF. REFLECTED CEILING PLANS FOR EXTENT / LAYOUT OF FINISHES.
2. PREPARE ALL EXPOSED STEEL TO SMOOTH FINISH PRIOR TO PAINTING.
3. CONTRACTOR TO PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES AS NEEDED.
4. ALL COUNTERTOPS TO BE SOLID PHENOLIC AND ALL UPPER AND LOWER CASEWORK TO BE FACED WITH PLASTIC LAMINATE WITH MATCHING EDGEBAND.
5. NOTE: ALL CASEWORK DOORS AND DRAWERS ARE TO BE LOCKABLE WITH HEAVY DUTY LOCKS. ALL LOCKS IN A ROOM KEYED THE SAME. ALL ROOMS KEYED DIFFERENTLY.
6. ALL CASEWORK EXPOSED OUTSIDE CORNERS TO RECEIVE STAINLESS CORNER GUARDS.
7. ALL CASEWORK DOORS AND DRAWERS TO ACCEPT BEST CYLINDERS AND SMALL FORMAT KEY CORES. BEST CYLINDERS TO BE OFOI.
8. CHASES TO HAVE UNFINISHED WALLS AND FLOORS.
9. PRECAST PANELS EXPOSED TO VIEW TO HAVE POWER TROWELED FINISH WITH PICK PROOF SEALANT AT PANEL JOINTS IN INMATE AREAS.
10. DOOR FRAME NAMING AND NUMBERING TO BE CENTERED ON HEADER FRAME ON LATCH SIDE OF DOOR. HELVETICA MEDIUM FONT, .75" H ON STANDARD FRAMES AND 1" H ON DETENTION FRAMES, COLOR WHITE. NUMBERING TO START WITH THE NEW CLUSTER DESIGNATION LETTER "J".
11. DOOR NAMING AND NUMBERING TO BE CENTERED HORIZONTALLY ON LATCH SIDE OF DOOR. NUMBER/ LETTER HEIGHT AND VERTICAL POSITION TO MATCH EXISTING.
12. LOWER LEVEL HM DOORS, FRAMES AND WINDOW FRAMES TO BE PAINTED **P3**.
13. LEVEL 1 HM DOORS, FRAMES AND WINDOW FRAMES TO BE PAINTED **P5**.
14. PAINT COLOR ON COLUMNS NOTED TO RECEIVE INTUMESCENT PAINT TO MATCH ADJACENT WALL COLOR.
15. ALL CONCRETE BENCHES TO BE FINISHED WITH EPOXY PAINT ALL SIDES.
16. USE HIGH MOISTURE CONTENT BLUE AT ALL OTHER SLAB DOWNLOADS BRACES.

⚠ CHECK FOR ANY ADDITIONAL FINISHES ON DOOR SCHEDULE

FINISH NOTES

1. REF. FINISH PLANS FOR EXTENT / LAYOUT OF FINISHES.
2. REF. BUILDING SECTIONS/ INTERIOR ELEVATIONS FOR FURTHER INFORMATION.
3. REF. REFLECTED CEILING PLANS FOR EXTENT/LAYOUT OF FINISHES.
4. SHOWER WALLS TO BE GLAZED CMU BLOCK (GCB). SHOWER FLOORS TO BE RESINOUS FLOORING OVER CONCRETE.
5. SEE FINISH PLAN FOR EXTENT OF VWC1 ON GYP. BD. SOFFIT THIS ROOM.
6. SEE FINISH PLAN AND INTERIOR ELEVATION FOR REQUIRED FLOOR AND WALL MARKINGS.
7. STEEL PIPE HANDRAILS, GUARD RAILS, STRINGERS, ETC. TO BE PAINTED **P3**.
8. STEEL PIPE HANDRAILS, GUARD RAILS, STRINGERS, ETC. TO BE PAINTED **P5**.

FINISH LEGEND

FLOORING

CARPET TILE
CPT1 WALK-OFF CARPET TILES - VESTIBULES
SHAW; ENTREE TILE, NAVY, 24"X24"

CPT2 CARPET TILE (COUNTY STANDARD)
TANDUS CENTIVA, AFTERMATH II #03026, 23512 TAPESTRY, 24"X24"
LOWER LEVEL & STAFF AREAS AS DESIGNATED ON FINISH PLAN & ROOM FINISH SCHEDULE

CPT3 FLOCKED VINYL SHEET FLOORING
FORBO, STRATUS 540014, ECLIPSE
LEVEL 1 INMATE AREAS AS DESIGNATED ON FINISH PLAN & ROOM FINISH SCHEDULE

PADDED FLOOR
**** ALTERNATE #5 ****
PF REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION

RESINOUS FLOORING
RES1 RESTROOMS, SHOWERS & DRESSING ROOMS
STONHARD, STONCLAD GS/ GS4
WITH TEXTURE 2, STEEL GRAY
REFER TO FINISH DETAILS

RES2 INMATE RESTROOMS & SHOWERS
STONHARD, STONCLAD GS/ GS4
WITH TEXTURE 2, STEEL GRAY
REFER TO FINISH DETAILS

RUBBER FLOORING
RF1 RUBBER FLOORING - STAIR TREADS & LANDINGS
NORA, NORAMENT STAIR TREAD ROUND, DUST GRAY

SEALED CONCRETE
SC REFER TO SPECIFICATIONS FOR FURTHER INFORMATION

STATIC DISSIPATIVE TILE
SD1 STATIC STOP, FREESTYLE ESD PLUS, GRAY-3
GLUE DOWN TILES, 18.5"X18.5"

TERRAZZO FLOORING
**** ALTERNATE SHOWER FLOOR FINISH ****
TZ1 REFER TO SPECIFICATIONS FOR FURTHER INFORMATION

VINYL SHEET FLOORING
VS1 SHAW, REED SHEET, STROLL, 6.5' X 68'

WALLS

CRASH RAILS
CR1 ACROVYN SCR-48N, BRUSHED SILVER, 6' HIGH
REFER TO FINISH DETAILS FOR DOUBLE RAIL INSTALLATION DETAIL

EPOXY PAINT
EP1 MARINE GRADE EPOXY PAINT - TOILET ROOM WALLS
COLOR TO BE P2
REFER TO SPECIFICATIONS FOR FURTHER INFORMATION

EP2 MARINE GRADE EPOXY PAINT - SHOWER CEILINGS
COLOR TO BE P6
REFER TO SPECIFICATIONS FOR FURTHER INFORMATION

GLAZED CMU BLOCK
GCB SHOWER WALLS
REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION

PADDED WALLS
**** ALTERNATE #5 ****
PW REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION

PAINT
(SHERWIN WILLIAMS IS COUNTY STANDARD BRAND)
P1 SHERWIN WILLIAMS, PASSIVE SW 7064
P2 SHERWIN WILLIAMS, NETWORK GRAY SW 7073
P3 SHERWIN WILLIAMS, DISTANCE SW 6243
P4 SHERWIN WILLIAMS, TRICORN BLACK SW 6258
P5 SHERWIN WILLIAMS, HOPSACK SW 6109
P6 SHERWIN WILLIAMS, CEILING BRIGHT WHITE SW 7007
TYP. ALL GYP. BD. OR HARD CEILINGS TO RECEIVE PAINT

VINYL WALLCOVERING
VWC1 MDC WALLCOVERING, LIVING WELL MURALS, ZEN
* FILL GROUT JOINTS TO SMOOTH FINISH BEFORE APPLING VINYL WALLCOVERING

WALL CARPET
WC1 TRI-KES, SILENCE, WARM GRAY
* FILL GROUT JOINTS TO SMOOTH FINISH BEFORE APPLING WALL CARPET

CASEWORK

PLASTIC LAMINATE
PL1 ALL UPPER AND LOWER CABINETS
WILSONART, COSMIC STRANDZ

SOLID PHENOLIC (SPC)
SP1 ALL COUNTERTOPS AND WALL CAPS
DURCON, BRITTANY BLUE
* NOTE * PROVIDE GROMMETS AT EACH WORKSTATION COUNTERTOP ABOVE KNEE SPACE AND AS REQUIRED BY OWNER. PROVIDE WIRE MANAGEMENT BELOW COUNTERTOP AT KNEE SPACE. BASIS OF DESIGN: MOCKETT G-SHAPE WIREMOLD CABLE MANAGER.

WALL BASE

INTEGRAL BASE
B1 TOILET ROOMS, SHOWERS & DRESSING ROOMS
COORDINATE TO RES1 (OR TZ1 ALTERNATE FINISH)
REFER TO FINISH DETAILS

B2 INMATE TOILET ROOMS & SHOWERS
COORDINATE TO RES2 (OR TZ1 ALTERNATE FINISH)
REFER TO FINISH DETAILS

PAINTED BASE
PB1 BOTTOM COURSE OF CMU TO BE PAINTED
CONTRASTING COLOR TO WALLS (P3)

RUBBER BASE
RB1 MANNINGTON, BURKE COLLECTION, 204 GRAY
TYPE TP, 4"H COVE BASE

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaftaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT — STATE OF TEXAS
07/13/2021

FINISH SCHEDULE, NOTES & LEGEND

21913
07/13/2021
A800

FOR BID

8/17/2021 4:08:26 PM

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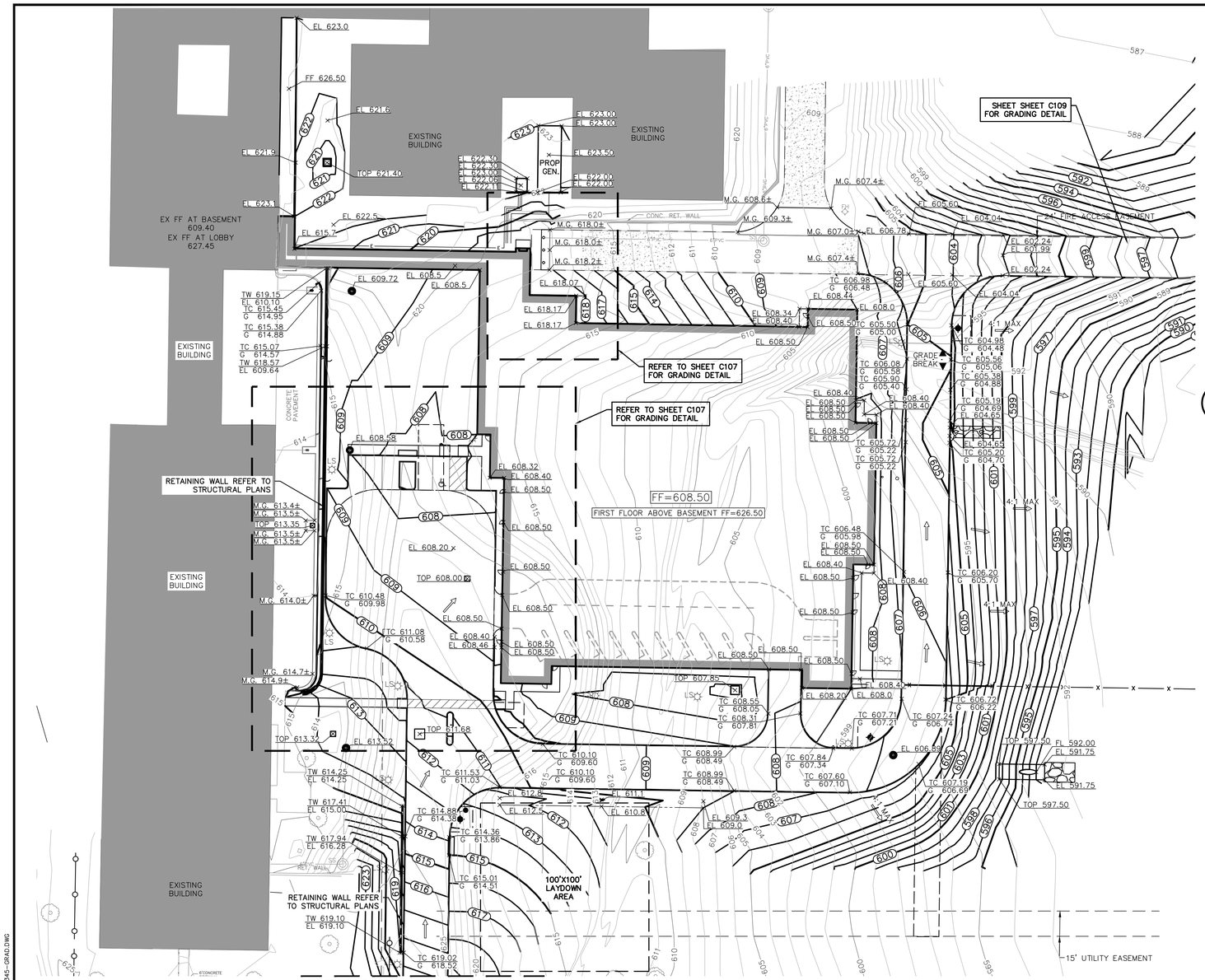
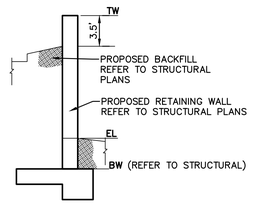


COORDINATE!!

CONTACT:	
DIG-TESS	1-800-DIG-TESS
ATMOS ENERGY	1-800-332-8667
ONCOR ELECTRIC	972-888-1359
AT&T	1-817-589-1056
CHARTER SPECTRUM	1-817-205-8177
TXU	1-800-711-9112
TEXAS ONE CALL	811
48 HOURS PRIOR TO CONSTRUCTION	



1 WALL NOMENCLATURE
NOT TO SCALE

0 15 30 60 90
GRAPHIC SCALE IN FEET

LEGEND

	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS (C.M.)	1/2"-INCH IRON ROD W/"PACHECO KOCH" CAP SET CONTROLLING MONUMENT
	PROPERTY LINE
x x	FENCE
OHL	OVERHEAD UTILITY LINE
613	EXIST CONTOUR
612.39	EXIST SPOT ELEVATION
TC 612.39 G 611.89	EXIST TOP OF CURB ELEVATION EXIST GUTTER ELEVATION
400	PROPOSED CONTOUR
TC 614.50 G 614.00	PROPOSED TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION
EL 614.25	PROPOSED SPOT ELEVATION
TW 620.50	PROPOSED TOP OF WALL ELEVATION
M.G.	MATCH EXISTING GRADE
	PROPOSED SWALE
	PROPOSED GRADE BREAK
	PROPOSED DRAINAGE FLOW DIRECTION

GRADING & DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
5. ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (i.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
6. UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
   6.A. RCP C-76, CLASS III
   6.B. ADS N-12
7. UNLESS NOTED, GRATE INLETS TO BE "FORTERRA PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
8. FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
9. REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
10. ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
11. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
12. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
13. A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS NEAR THE OUTLET PIPE.
14. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
15. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR MEETING ALL BONDING REQUIREMENTS FOR WORK IN THE CITY OF MCKINNEY AS WELL AS ALL FEES REQUIRED BY THE CITY FOR CONSTRUCTION OF THE SIDE CIVIL IMPROVEMENTS.

BENCH MARK LIST

BM# 100 SET " X " CUT 598.7 LF WEST AND 294.3 LF SOUTH OF THE EXISTING SHERIFF'S STATION SOUTHWEST BUILDING CORNER.
N: 7141196.58
E: 2538329.23
ELEV=653.08

BM# 101 1/2" SIR W/ TP CAP 526.5 LF WEST AND 54.0 LF NORTH OF THE EXISTING SHERIFF'S STATION SOUTHWEST BUILDING CORNER.
N: 7141544.87
E: 2538401.43
ELEV=646.47

BM# 102 SET " X " CUT 358.8 LF WEST AND 274.0 LF SOUTH OF THE EXISTING SHERIFF'S STATION SOUTHWEST BUILDING CORNER.
N: 7141216.91
E: 2538569.12
ELEV=652.18

TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY: HALFF ASSOCIATES, INC., DATED JUNE 29, 2020.

WORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY ALLIANCE GEOTECHNICAL GROUP, DATED AUGUST 14, 2020.

STATE OF TEXAS · CLINT A. BISSETT · 93845 · LICENSED PROFESSIONAL ENGINEER · 07-13-21

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CLINT A. BISSETT, P.E. 93845 ON 07/13/2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
1	08/16/2021	ADDENDUM 2

Pacheco Koch
118 N. OHIO STREET
CELINA, TX 75009 214.451.2765
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

GRADING PLAN

COLLIN COUNTY ADF - PHASE 1 ADDITION

COLLIN COUNTY JUSTICE CENTER

4300 COMMUNITY AVENUE

CITY OF MCKINNEY, COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CAB	JDH	JULY 2021	1"=30'			C105

PK-2477-20.345-GRAD.DWG

PK FILE: 2477-20.345

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COLLIN COUNTY ADF - PHASE 1 ADDITION

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LaltaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE, MCKINNEY, TX 75071

History

#	Date	Description

GRADING PLAN

FOR BID

21913
07/13/2021
C105

BENCH MARK LIST

BM# 100 SET " X " CUT 598.7 LF WEST AND 294.3 LF SOUTH OF THE EXISTING SHERIFF'S STATION SOUTHWEST BUILDING CORNER.
N: 7141196.58
E: 2538329.23
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BM# 101 1/2" SIR W/ TP CAP 526.5 LF WEST AND 54.0 LF NORTH OF THE EXISTING SHERIFF'S STATION SOUTHWEST BUILDING CORNER.
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N: 7141216.91
E: 2538569.12
ELEV=652.18

COORDINATE!!

CONTACT:

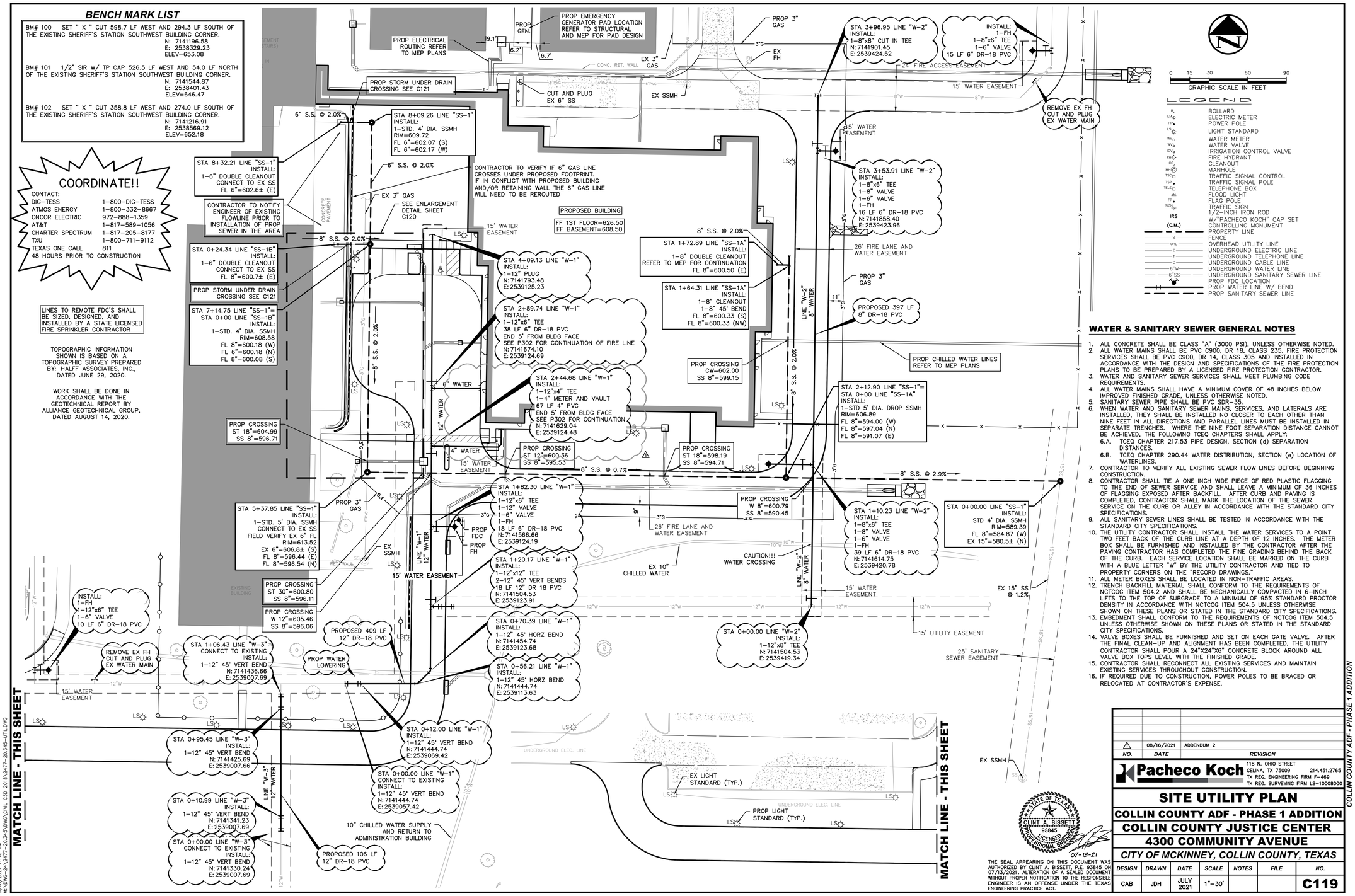
DIG-TESS	1-800-DIG-TESS
ATMOS ENERGY	1-800-332-8667
ONCOR ELECTRIC	972-888-1359
AT&T	1-817-589-1056
CHARTER SPECTRUM	1-817-205-8177
TXU	1-800-711-9112
TEXAS ONE CALL	811

48 HOURS PRIOR TO CONSTRUCTION

LINES TO REMOTE FDC'S SHALL BE SIZED, DESIGNED, AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR

TOPOGRAPHIC INFORMATION SHOWN IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY: HALFF ASSOCIATES, INC., DATED JUNE 29, 2020.

WORK SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY ALLIANCE GEOTECHNICAL GROUP, DATED AUGUST 14, 2020.



0 15 30 60 90
GRAPHIC SCALE IN FEET

LEGEND

	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD
(C.M.)	W/"PACHECO KOCH" CAP SET
	CONTROLLING MONUMENT
	PROPERTY LINE
X	FENCE
OHL	OVERHEAD UTILITY LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"W	UNDERGROUND WATER LINE
6"SS	UNDERGROUND SANITARY SEWER LINE
	PROP FDC LOCATION
	PROP WATER LINE W/ BEND
	PROP SANITARY SEWER LINE

WATER & SANITARY SEWER GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A" (3000 PSI), UNLESS OTHERWISE NOTED.
2. ALL WATER MAINS SHALL BE PVC C900, DR 18, CLASS 235. FIRE PROTECTION SERVICES SHALL BE PVC C900, DR 14, CLASS 305 AND INSTALLED IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS OF THE FIRE PROTECTION PLANS TO BE PREPARED BY A LICENSED FIRE PROTECTION CONTRACTOR.
3. WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
4. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48 INCHES BELOW IMPROVED FINISHED GRADE, UNLESS OTHERWISE NOTED.
5. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
6. WHEN WATER AND SANITARY SEWER MAINS, SERVICES, AND LATERALS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING TCEQ CHAPTERS SHALL APPLY:
   6.A. TCEQ CHAPTER 217.53 PIPE DESIGN, SECTION (d) SEPARATION DISTANCES.
   6.B. TCEQ CHAPTER 290.44 WATER DISTRIBUTION, SECTION (e) LOCATION OF WATERLINES.
7. CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL TIE A ONE INCH WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36 INCHES OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB OR ALLEY IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
9. ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
10. THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO FEET BACK OF THE CURB LINE AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION SHALL BE MARKED ON THE CURB WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
11. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
12. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
13. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
14. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED, THE UTILITY CONTRACTOR SHALL POUR A 24"X24"X6" CONCRETE BLOCK AROUND ALL VALVE BOX TOPS LEVEL WITH THE FINISHED GRADE.
15. CONTRACTOR SHALL RECONNECT ALL EXISTING SERVICES AND MAINTAIN EXISTING SERVICES THROUGHOUT CONSTRUCTION.
16. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

NO.	DATE	REVISION
1	08/16/2021	ADDENDUM 2

Pacheco Koch
118 N. OHIO STREET
CELINA, TX 75009 214.451.2765
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

SITE UTILITY PLAN
COLLIN COUNTY ADF - PHASE 1 ADDITION
COLLIN COUNTY JUSTICE CENTER
4300 COMMUNITY AVENUE
CITY OF MCKINNEY, COLLIN COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CAB	JDH	JULY 2021	1"=30'			C119

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CLINT A. BISSETT, P.E. 93845 ON 07/13/2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

STATE OF TEXAS · CLINT A. BISSETT · 93845 · LICENSED PROFESSIONAL ENGINEER · 07-13-21

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COLLIN COUNTY ADF - PHASE 1 ADDITION

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE, MCKINNEY, TX 75071

History

#	Date	Description

SITE UTILITY PLAN

21913
07/13/2021
C119

FOR BID

NOTE: SEE ENLARGED PLANS FOR BALANCE OF TAGS.

1 DETENTION FLOOR PLANS - LEVEL 1 - EAST

SCALE: 1/8" = 1'-0"

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2001	CORR.
2002	STORAGE ROOM
2003	BREAK ROOM
2004	STAFF TOILET
2005	CORR.
2006	MEDICAL
2007	INMATE STAGING
2007	CORR.
2008	CORR.
2009	VISIT
2010	VISIT
2011	VISIT
2012	CLUSTER CONTROL STATION
2013	MATTRESS STORAGE
2014	MECH.
2015	IT
2016	BOILER
2017	IT

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2017	CORR.
2018	SAFETY VEST.
2019	VISIT
2020	VISIT
2021	VISIT
2022	CORR.
2023	CORR.
2024	CORRIDOR
2024	INMATE TRANSFER/CIRCULATION
2101	DAYROOM/ DINING/ TV
2102	HOUSING OFFICER WK.STATION
2103	MED. DISTR.
2104	MULTIPURPOSE
2105	STAFF RESTROOM
2106	ELECT. STO./ RECHARGE
2107	MULTIFUNCTIONAL KIOSK
2108	OUTDOOR EXERCISE YARD
2110	STORAGE

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2111	DORMITORY
2112	STORAGE
2113	DORMITORY
2114	SHOWER
2115	INMATE RESTROOM
2116	INMATE RESTROOM
2117	HC DORMITORY
2118	DORMITORY
2119	DORMITORY
2121	DORMITORY
2122	DORMITORY
2123	DORMITORY
2124	JAN.
2125	DORMITORY
2201	DAYROOM/ DINING/ TV
2202	HOUSING OFFICER WK.STATION
2203	MED. DISTR.
2204	MULTIPURPOSE

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2205	STAFF RESTROOM
2206	ELECT. STO./ RECHARGE
2207	MULTIFUNCTIONAL KIOSK
2208	OUTDOOR EXERCISE YARD
2209	DBL. OCC. CELL
2211	DBL. OCC. CELL
2212	DBL. OCC. CELL
2213	DBL. OCC. CELL
2214	DBL. OCC. CELL
2215	DBL. OCC. CELL
2216	HC DBL. OCC. CELL
2217	INMATE TOILET
2218	SHOWER
2219	JAN.
2221	DBL. OCC. CELL
2222	DBL. OCC. CELL
2223	DBL. OCC. CELL
2224	SAFETY VESTIBULE

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2225	DBL. OCC. CELL
2226	DBL. OCC. CELL
2227	DBL. OCC. CELL
2228	DBL. OCC. CELL
2229	INMATE TOILET
2231	STORAGE
2232	DBL. OCC. CELL
2233	DBL. OCC. CELL
2234	DBL. OCC. CELL
2235	DBL. OCC. CELL
2301	DAYROOM/ DINING/ TV
2302	HOUSING OFFICER WK.STATION
2303	MED. DISTR.
2304	MULTIPURPOSE ROOM
2305	STAFF RESTROOM
2306	ELECT. STO./ RECHARGE
2307	MULTIFUNCTIONAL KIOSK
2308	OUTDOOR EXERCISE YARD

ROOM SCHEDULE (LEVEL 1)

NUMBER	ROOM NAME
2309	STORAGE
2311	DORMITORY
2312	DORMITORY
2313	DORMITORY
2314	INMATE TOILET
2315	INMATE SHOWER
2316	HC DORMITORY
2317	DORMITORY
2318	J.C
2319	STORAGE
2365	STAIR

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

REGISTERED ARCHITECT STATE OF TEXAS 07/13/2021

DETENTION FLOOR PLAN - LEVEL 1 EAST

21913

07/13/2021

D213

FOR BID

DHM DOOR SCHEDULE

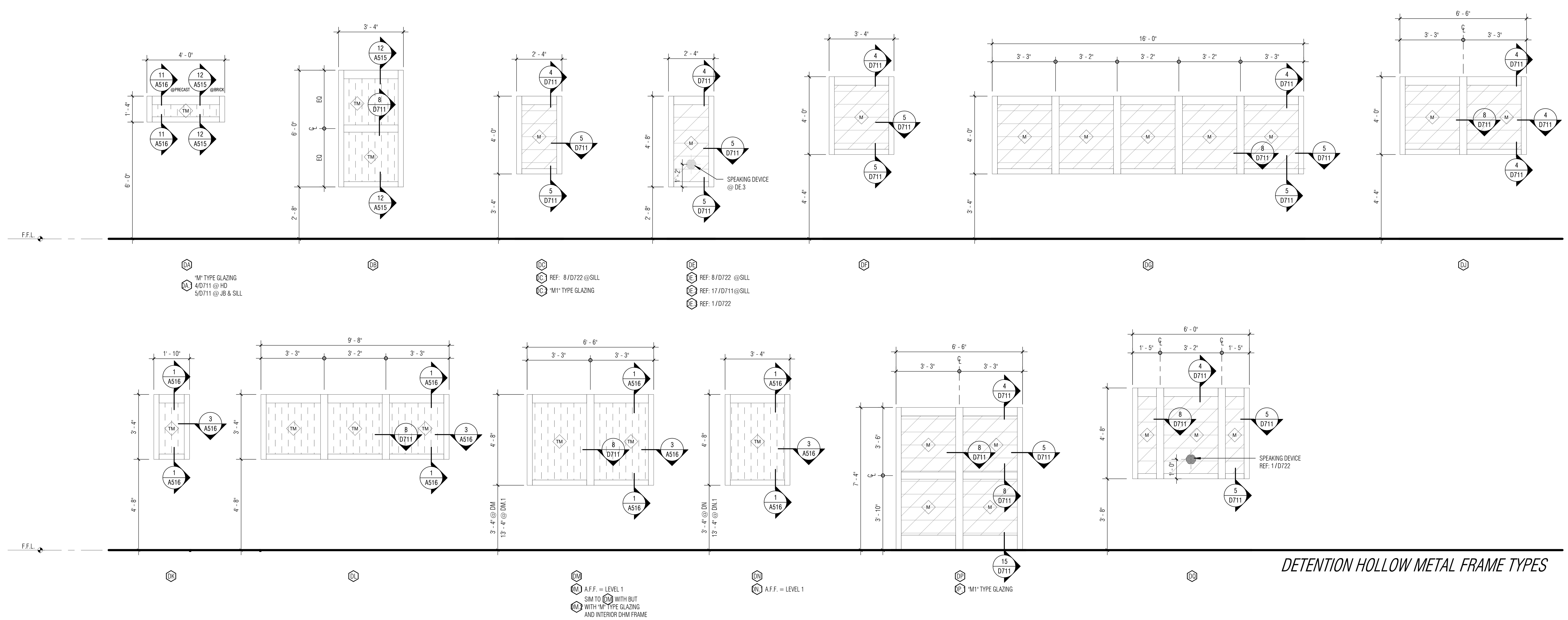
#	DOOR TYPE	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR CONSTRUCTION DOOR MATERIAL	DOOR CONSTRUCTION GLAZING TYPE	FRAME TYPE	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	FRAME CONSTRUCTION FRAME MATERIAL	FRAME CONSTRUCTION GLAZING TYPE	FIRE RATING	HW SET NO.	REMARKS
D1001C	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D1001D	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D1001E	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D1003A	HX-P	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	90	D-09	
D1003B	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	--	D-09	
D1006	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1007	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	7' - 0"	DHM	M	--	D-01	
D1008	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1009	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1011	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1022	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	20	D-03	
D1024	HX	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	--	--	D-01	
D1101A	BHCX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
D1101B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-06	
D1118	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1119	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	5' - 0"	DHM	M	--	D-01	
D1121	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1122	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1123	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1124	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1125	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1126	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1129A	HX	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-05	
D1129B	CX	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1130A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1130B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
D1141A	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	--	D-09	
D1141B	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	20	D-09	
D1200A	AX	7' - 0"	4' - 0"	DHM	--	F3000	7' - 4"	4' - 10"	DHM	--	--	D-05	
D1204A	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1204B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1208A	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	20	D-09	
D1208B	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	90	D-09	
D1209	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1210	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1211	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1302	BX-S	7' - 0"	3' - 0"	DHM	M	F1000	7' - 4"	3' - 4"	DHM	--	--	D-07	
D1303	BX-S	7' - 0"	3' - 0"	DHM	M	F1000	7' - 4"	3' - 4"	DHM	--	--	D-07	
D1304	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1305	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1313A	BHCX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1313B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
D1314	BX	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
D1316A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1316B	BHCX	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1317A	BHCX	7' - 0"	3' - 6"	DHM	M	F3000	7' - 4"	4' - 4"	DHM	--	--	D-05	
D1317B	AX	7' - 0"	4' - 0"	DHM	--	F3000	7' - 4"	4' - 10"	DHM	--	45	D-06	
D1319A	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	--	D-09	SLIDING DOOR

DHM DOOR SCHEDULE

#	DOOR TYPE	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR CONSTRUCTION DOOR MATERIAL	DOOR CONSTRUCTION GLAZING TYPE	FRAME TYPE	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	FRAME CONSTRUCTION FRAME MATERIAL	FRAME CONSTRUCTION GLAZING TYPE	FIRE RATING	HW SET NO.	REMARKS
D1319B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D1322	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1323	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1324A	HX-P	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	90	D-09	
D1324B	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	--	D-09	
D1325	CX-X	7' - 0"	3' - 0"	DHM	M	F3213	7' - 4"	8' - 4"	DHM	M	--	D-01	
D1326	CX-X	7' - 0"	3' - 0"	DHM	M	F3004	7' - 4"	10' - 2"	DHM	M	--	D-01	
D1327	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1328	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1329	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1330	CX-X	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	--	D-01	
D1331B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D1333B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	STL. MESH	--	D-14	REF: 10/D722 & 11/D722
D2003	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D2005A	HX	7' - 0"	5' - 0"	DHM	M	F8000	7' - 4"	5' - 11"	DHM	--	--	D-09	
D2005B	AX	7' - 0"	3' - 6"	DHM	--	F3000	7' - 4"	4' - 4"	DHM	--	90	D-05	
D2007A	HX	7' - 0"	4' - 0"	DHM	M	F8000	7' - 4"	4' - 11"	DHM	--	--	D-09	
D2007B	AX	7' - 0"	3' - 0"	DHM	M	F8003	7' - 4"	7' - 1"	DHM	--	--	D-09	
D2008	HX	7' - 0"	3' - 0"	DHM	M1	F3005	7' - 4"	13' - 4"	DHM	M1	--	D-04	
D2010	CX	7' - 0"	3' - 0"	DHM	--	F1000	7' - 4"	3' - 4"	DHM	--	--	D-08	
D2011	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D2013	AX	7' - 0"	3' - 6"	DHM	--	F3000	7' - 4"	4' - 4"	DHM	--	20	D-05	
D2015	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D2016A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D2016B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
D2019	CX	7' - 0"	3' - 0"	DHM	--	F1000	7' - 4"	3' - 4"	DHM	--	--	D-08	
D2095	AX	7' - 0"	3' - 0"	DHM	--	F1000	7' - 4"	3' - 4"	DHM	--	--	D-08	
D2101	HX-P	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	20	D-01	
D2103B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	M	--	D-14	REF: 10/D722 SIM & 12/D722
D2104B	HX	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 10"	DHM	M	20	D-05	
D2108A	CX	7' - 8"	3' - 0"	DHM	M	F3000	8' - 0"	3' - 10"	DHM	M	45	D-06	
D2108B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D2201	HX-P	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	20	D-01	
D2203B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	M	--	D-14	REF: 10/D722 SIM & 12/D722
D2204B	HX	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 10"	DHM	M	20	D-05	
D2208A	CX	7' - 8"	3' - 0"	DHM	M	F3000	8' - 0"	3' - 10"	DHM	M	45	D-06	
D2208B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D2209	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2211	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2212	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2213	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2214	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2215	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2216	BX-X-S	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	--	D-01	
D2221	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2222	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2223	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2224	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	

DHM DOOR SCHEDULE

#	DOOR TYPE	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR CONSTRUCTION DOOR MATERIAL	DOOR CONSTRUCTION GLAZING TYPE	FRAME TYPE	FRAME SIZE HEIGHT	FRAME SIZE WIDTH	FRAME CONSTRUCTION FRAME MATERIAL	FRAME CONSTRUCTION GLAZING TYPE	FIRE RATING	HW SET NO.	REMARKS
D2225	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2226	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2227	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2228	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2231	AX	7' - 0"	3' - 0"	DHM	M	F1000	7' - 4"	3' - 4"	DHM	--	--	D-13	
D2232	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2233	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2234	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2235	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D2301	HX-P	7' - 0"	3' - 0"	DHM	M	F3003	7' - 4"	6' - 0"	DHM	M	20	D-01	
D2303B	AX	3' - 8 1/2"	2' - 2"	DHM	--	DPT	4' - 0"	2' - 6"	DHM	M	--	D-14	REF: 10/D722 SIM & 12/D722
D2304B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	20	D-05	
D2308A	AX	7' - 8"	3' - 0"	DHM	M	F3000	8' - 0"	3' - 10"	DHM	--	45	D-06	
D2308B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	45	D-06	
D3201	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3202	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3203	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3204	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3205	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3206	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3207	BX-X-S	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	--	D-01	
D3213	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3214	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3215	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3216	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	--	D-05	
D3217	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3218	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3219	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3221	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3223	AX	7' - 0"	3' - 0"	DHM	M	F1000	7' - 4"	3' - 4"	DHM	--	--	D-13	
D3224	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3225	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3226	BX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
D3227	BHCX-X-S	7' - 0"	2' - 6"	DHM	M	F3000	7' - 4"	3' - 4"	DHM	--	--	D-01	
DST01A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST01B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	60 (1)	D-06	
DST01C	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST01D	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST02A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	60 (1)	D-06	
DST02B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST02C	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST03A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	60 (1)	D-06	
DST03B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST03C	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST05A	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST05B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	60 (1)	D-06	
DST06A	BX	7' - 0"	3' - 0"	DHM	M	F3000	7' - 4"	3' - 10"	DHM	--	90	D-05	
DST07B	AX	7' - 0"	3' - 0"	DHM	--	F3000	7' - 4"	3' - 10"	DHM	--	60 (1)	D-06	



DETENTION HOLLOW METAL FRAME TYPES

GLAZING SCHEDULE (DETENTION)

NO.	TYPE
L	SECURITY GLAZING - 5/8" TEMPERED GLASS
M	SECURITY GLAZING - LAMINATE
M1	SECURITY GLAZING - LAMINATE - MIRRORED ON ATTACK SIDE
TM	INSULATED GLAZING, CLEAR LAMINATED SECURITY GLAZING

SHEET NOTES:

1. ALL EXTERIOR GLAZING TYPE 'TM' UNLESS NOTED OTHERWISE

BRINKLEY SARGENT WIGINTON ARCHITECTS

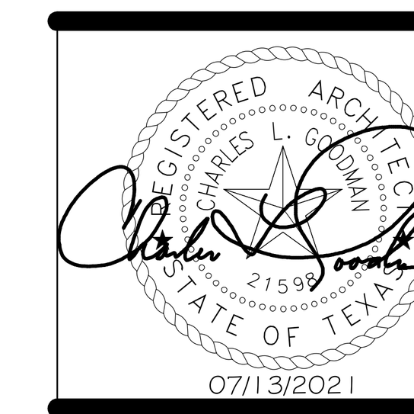
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2



DETENTION DOOR SCHEDULE & DHM FRAME ELEVATIONS

21913

07/13/2021

D702

FOR BID

Brinkley Sargent Wiginton Architects, Inc.

PANELBOARD SCHEDULE

BUS SIZE: **225 A** MB SIZE: **225 A** PANEL NAME: **LA** (ELEC ROOM 1404)
KAIC RATING: **10** MOUNTING: **SURFACE** VOLTAGE: **208 /120V 3PH, 4W**

CKT	DESCRIPTION	AMP/POLE	LTG	RCPT	MTR	HEAT	KITC	MISC				MISC	KITC	HEAT	MTR	RCPT	LTG	AMP/POLE	DESCRIPTION	CKT
1	RCPT CORRIDOR	20/1		1.42					1	A	2					0.72		20/1	RCPT RECORDS/BOND	2
3	RCPT RECORDS/BOND	20/1		0.54					3	B	4					0.50		20/1	RCPT RECORDS/BOND	4
5	RCPT RECORDS/BOND	20/1		0.50					5	C	6					0.72		20/1	RCPT RECORDS/BOND	6
7	RCPT RECORDS/BOND	20/1		1.00					7	A	8					1.00		20/1	RCPT RECORDS/BOND	8
9	RCPT VIDEO VISIT 1302/03	20/1		1.00					9	B	10					1.08		20/1	RCPT RELEASE/PROCES	10
11	RCPT RELEASE, R-R/...	20/1		0.54					11	C	12					1.00		20/1	RCPT RECORDS/BOND	12
13	RCPT CORR, ELEC MON	20/1		0.72					13	A	14					0.72		20/1	RCPT JAN, R/R, CONV	14
15	RCPT REL/STAGE...	20/1		1.00					15	B	16					0.54		20/1	RCPT JAN, CHASE	16
17	RCPT TRSN COORD, VEST	20/1		0.90					17	C	18					0.75		20/1	RCPT TRANS/COORD...	18
19	PWR FLR BOX ARREST...	20/1		1.08					19	A	20					0.72		20/1	PWR FLR BOX ARREST...	20
21	RCPT R-R/PRINT/VEST	20/1		0.72					21	B	22					0.72		20/1	RCPT PRINT 1014	22
23	RCPT STOR/COUNTER	20/1		0.54					23	C	24					1.08		20/1	RCPT INTOX/CHASE/VEST	24
25	RCPT PROP COLLT 1204	20/1		0.36					25	A	26					0.90		20/1	RCPT DESKS/CONV	26
27	RCPT CONVENIENCE	20/1		0.72					27	B	28					0.72		20/1	RCPT CONVENIENCE	28
29	CONV CONTROL PANEL	20/1		0.75					29	C	30					0.75		20/1	CONV CONTROL PANEL	30
31	PROPERTY CONVEYOR	20/3			0.45				31	A	32				0.45			20/3	PROPERTY CONVEYOR	32
33	SYSTEM				0.45				33	B	34				0.45				SYSTEM	34
35	(1HP)				0.45				35	C	36				0.45				(1HP)	36
37	CONV CONTROL PANEL	20/1		0.75					37	A	38				0.45			20/3	PROPERTY CONVEYOR	38
39	RCPT CORRIDOR CONV	20/1		0.54					39	B	40				0.45				SYSTEM	40
41	RCPT WASHER LAUND...	15/1			0.70				41	C	42				0.45				(1HP)	42
43	RCPT DRYER LAUND 1207	30/2			0.70	2.00			43	A	44				0.20			15/2	VRF-04/01 & VRF-04/02	44
45	(2 #10 + N + G)					2.00			45	B	46				0.20				& VRF-04/03	46
47	RCPT SMOKE CURTAIN	15/1		0.50					47	C	48					0.75		15/1	RCPT BOILER CNTRL PNL	48
49	J-BOX SEC ELEC DEVICE	20/1		1.00					49	A	50				0.20			15/1	RCPT LOUVER L-25	50
51	J-BOX SEC ELEC DEVICE	20/1		1.00					51	B	52								BLANK	52
53	RCPT EXTERIOR	20/1		0.36					53	C	54								BLANK	54
55	RCPT ELEV OIL INT....	15/1		0.50					55	A	56								BLANK	56
57	RCPT ELEV SP-1 (1/2HP)	20/1			1.15				57	B	58								BLANK	58
59	RCPT ELEV CONTROLLER	20/1		0.50					59	C	60								BLANK	60
61	RCPT ELEV CAB	20/1		0.50					61	A	62								BLANK	62
63	FAN EF-01	25/2			1.37				63	B	64								BLANK	64
65					1.37				65	C	66								BLANK	66
67	FAN EF-15	25/2			1.37				67	A	68								BLANK	68
69					1.37				69	B	70								BLANK	70
71	FAN EF-16	30/1			1.90				71	C	72								BLANK	72
73	RCPT ROOF	20/1			1.08				73	A	74								BLANK	74
75	GENERATOR ELEC. PNL	40/2			6.00				75	B	76								BLANK	76
77	(2 #8 + N + G)				6.00				77	C	78								BLANK	78
79	BLANK								79	A	80					8.30		60/3	PANEL IT1	80
81	BLANK								81	B	82					7.60			(I.T. ROOM 1213)	82
83	BLANK								83	C	84					2.16				84
	TOTALS		0.00	17.44	24.36	4.00	0.00	0.00				0.00	0.00	0.00	3.30	30.73	0.00		TOTALS	

LOAD	LOAD (KVA) A	B	C	CONN. KVA	MULT	DESN KVA
LIGHTING	0.00	0.00	0.00	0.00	1.25	0.00
RECEPTACLE	19.69	16.68	11.80	48.17	NEC	29.09
MOTOR	4.90	11.44	11.32	27.66	NEC	27.66
LARGEST MOTOR	HP:	1	FLC	4.60		8.00
	V/PH:	208/3	KVA	1.66		9.00
HEAT	2.00	2.00	0.00	4.00	1.00	4.00
KITCHEN	0.00	0.00	0.00	0.00	0.65	0.00
MISCELLANEOUS	0.00	0.00	0.00	0.00	1.00	0.00
TOTAL	26.59	30.12	23.12	79.83		60.75
TOTAL KVA						**60.7**
TOTAL AMPS						**168.6**

NOTES:
1. PROVIDE A TYPED BREAKER SCHEDULE ON THE INSIDE OF THE DOOR

PANELBOARD SCHEDULE

BUS SIZE: **225 A** MB SIZE: **225 A** PANEL NAME: **LB** (ELEC ROOM 1026)
KAIC RATING: **10** MOUNTING: **SURFACE** VOLTAGE: **208 /120V 3PH, 4W**

CKT	DESCRIPTION	AMP/POLE	LTG	RCPT	MTR	HEAT	KITC	MISC				MISC	KITC	HEAT	MTR	RCPT	LTG	AMP/POLE	DESCRIPTION	CKT
1	RCPT FIRE ROOM	20/1		0.75					1	A	2					0.75		20/1	RCPT FIRE ROOM	2
3	RCPT FIRE ROOM, WS-1	20/1		1.00					3	B	4					0.36		20/1	RCPT VSP CONVENIENCE	4
5	RCPT VSP CONVENIENCE	20/1		0.36					5	C	6					0.36		20/1	RCPT VSP CONVENIENCE	6
7	RCPT VSP CONVENIENCE	20/1		0.72					7	A	8					0.54		20/1	RCPT BREAK CONV	8
9	RCPT JAN, MECH, VEST	20/1		1.08					9	B	10					1.00		20/1	RCPT BREAK COFFEE	10
11	RCPT EXT, CHASE	20/1		0.90					11	C	12					0.75		20/1	RCPT BREAK REFR	12
13	RCPT R/R, CONV	20/1		0.90					13	A	14					1.20		20/1	RCPT BREAK MICROWAVE	14
15	PWR FLOOR BOX	20/1		0.72					15	B	16					1.00		20/1	WHIP - MILLWORK	16
17	RCPT BOOKING COORDIN	20/1		0.54					17	C	18					0.75		20/1	PWR FLOOR BOX	18
19	WHIP - MILLWORK	20/1		1.00					19	A	20					1.00		20/1	PWR HYDR GATE...	20
21	WHIP - MILLWORK	20/1		1.00					21	B	22					1.00		20/1	PWR HYDR GATE...	22
23	RCPT CONVENIENCE	20/1		0.72					23	C	24					0.50		15/1	RCPT CO SENSORS	24
25	RCPT PRINTER	20/1		1.00					25	A	26					0.72		20/1	RCPT PRINT/COPY	26
27	RCPT OFFICE	20/1		0.90					27	B	28					0.90		20/1	RCPT ADMISSIONS	28
29	RCPT BOOKING RELEASE	20/1		0.72					29	C	30					0.36		20/1	RCPT PRE-BOOK CNTR	30
31	RCPT PRE-BOOK CNTR	20/1		0.50					31	A	32					0.72		20/1	RCPT PRE-BOOK CNTR	32
33	RCPT PRE-BOOK CNTR	20/1		0.50					33	B	34					0.36		20/1	RCPT PRE-BOOK CNTR	34
35	RCPT HEALTH SCREEN	20/1		0.72					35	C	36					0.72		20/1	RCPT HEALTH SCREEN	36
37	RCPT HEALTH SCREEN	20/1		0.72					37	A	38					0.72		20/1	RCPT HEALTH SCREEN	38
39	RCPT CONVENIENCE	20/1		0.72					39	B	40					1.20		20/1	RCPT BODY SCANNER	40
41	RCPT BODY SCANNER	20/1		1.20					41	C	42					0.72		20/1	RCPT HEALTH EXAM	42
43	RCPT HEALTH SCR, CONV	20/1		0.72					43	A	44					0.54		20/1	RCPT MENTAL HEALTH...	44
45	RCPT MED STRG, CONV	20/1		0.54					45	B	46					0.72		20/1	PWR FLOOR BOX	46
47	PWR FLOOR BOX	20/1		0.72					47	C	48					0.75		20/1	RCPT KIOSK	48
49	RCPT VIDEO VISIT...	20/1		0.60					49	A	50					0.90		20/1	RCPT TV (RELAY R1-22)	50
51	RCPT TV (RELAY R1-23)	20/1		0.90					51	B	52					0.72		20/1	RCPT INTERVIEW	52
53	RCPT INTERVIEW, CONV	20/1		0.90					53	C	54					0.90		20/1	PWR FLR BOX, COURT RM	54
55	RCPT TV, CONV COUTH	20/1		0.75					55	A	56					0.36		20/1	RCPT CONVENIENCE	56
57	RCPT CONVENIENCE	20/1		0.54					57	B	58				0.70			15/1	FANS EF-02	58
59	RCPT FINGER PRINT...	20/1		0.72					59	C	60					0.75		15/1	UNIT HEAT UH-02 TO...	60
61	RCPT LOUVERS VSP	15/1		0.50					61	A	62				2.00			30/3	BOOSTER PUMP	62
63	RCPT EXTER IRRIG CNTRL	15/1		0.50					63	B	64				2.00				BP-1	64
65	VRF-02/03 & VRF-02/05	15/2			0.15				65	C	66				2.00					66
67					0.15				67	A	68				1.40			25/2	PWR GATE OPERATOR	68
69	VRF-01/03 TO VRF-01/07	15/2			1.10				69	B	70				1.40				EAST SIDE (2HP)	70
71	& FS-01/02				1.10				71	C	72					0.50		20/1	PWR GATE CONTROL	72
73	RCPT EXTERIOR	20/1		0.72					73	A	74				1.70			25/1	FAN EF-03	74
75	PWR BI-FOLD DOOR...	20/1		0.75					75	B	76					0.75		20/1	RCPT MECH EMS CABINET	76
77	PWR BI-FOLD DOOR...	20/1		0.75					77	C	78								BLANK	78
79	PWR COMPRESSOR	30/3			2.00				79	A	80	0.00	0.00	0.00	0.00	0.00	0.00	100/3	PANEL L1B	80
81	5HP				2.00				81	B	82	0.00	0.00	0.00	0.00	0.00	0.00			82
83	#10 WIRE				2.00				83	C	84	0.00	0.00	0.00	0.00	0.00	0.00			84
	TOTALS		0.00	26.28	8.50	0.00	0.00	0.00				0.00	0.00	0.00	11.20	22.52	0.00		TOTALS	

LOAD	LOAD (KVA) A	B	C	CONN. KVA	MULT	DESN KVA
LIGHTING	0.00	0.00	0.00	0.00	1.25	0.00
RECEPTACLE	16.33	17.16	15.31	48.80	NEC	29.40
MOTOR	7.25	7.20	5.25	19.70	NEC	19.70
LARGEST MOTOR	HP:	5	FLC	16.70		8.00
	V/PH:	208/3	KVA	6.02		9.00
HEAT	0.00	0.00	0.00	0.00	1.00	0.00
KITCHEN	0.00	0.00	0.00	0.00	0.65	0.00
MISCELLANEOUS	0.00	0.00	0.00	0.00	1.00	0.00
TOTAL	23.58	24.36	20.56	68.50		49.10
TOTAL KVA						**49.1**
TOTAL AMPS						**136.3**

NOTES:
1. PROVIDE HACR BREAKERS FOR ALL HVAC EQUIPMENT
2. PROVIDE A TYPED BREAKER SCHEDULE ON THE INSIDE OF THE DOOR

PANELBOARD SCHEDULE

BUS SIZE: **100 A** MB SIZE: **MLO** PANEL NAME: **L1B** (ELEC ROOM 1026)
KAIC RATING: **10** MOUNTING: **SURFACE** VOLTAGE: **208 /120V 3PH, 4W**

CKT	DESCRIPTION	AMP/POLE	LTG	RCPT	MTR	HEAT	KITC	MISC				MISC	KITC	HEAT	MTR	RCPT	LTG	AMP/POLE	DESCRIPTION	CKT
1	RCPT GARBGE DISP 1113	20/1			1.20				1	A	2				0.20			15/1	UNIT HEATER UH-06	2
3	RCPT WATER SOFT WS-1	20/1			0.75				3	B	4								BLANK/FUTURE	4
5	BLANK/FUTURE								5	C	6								BLANK/FUTURE	6
7	BLANK/FUTURE								7	A	8								BLANK/FUTURE	8
9	BLANK/FUTURE								9	B	10								BLANK/FUTURE	10
11	BLANK/FUTURE								11	C	12								BLANK/FUTURE	12
13	BLANK/FUTURE								13	A	14								BLANK/FUTURE	14
15	BLANK/FUTURE								15	B	16								BLANK/FUTURE	16
17	BLANK/FUTURE								17	C	18								BLANK/FUTURE	18
19	BLANK/FUTURE								19	A	20								BLANK/FUTURE	20
21	BLANK/FUTURE								21	B	22								BLANK/FUTURE	22
23	BLANK/FUTURE								23	C	24								BLANK/FUTURE	24
25	BLANK/FUTURE								25	A	26								BLANK/FUTURE	26
27	BLANK/FUTURE								27	B	28								BLANK/FUTURE	28
29	BLANK/FUTURE								29	C	30								BLANK/FUTURE	30
31	BLANK/FUTURE								31	A	32								BLANK/FUTURE	32
33	BLANK/FUTURE								33	B	34								BLANK/FUTURE	34
35	BLANK/FUTURE								35	C	36								BLANK/FUTURE	36
37	BLANK/FUTURE								37	A	38								BLANK/FUTURE	38
39	BLANK/FUTURE								39	B	40								BLANK/FUTURE	40
41	BLANK/FUTURE								41	C	42								BLANK/FUTURE	42
	TOTALS		0.00	0.00	1.95	0.00	0.00	0.00				0.00	0.00	0.00	0.20	0.00	0.00		TOTALS	

LOAD	LOAD (KVA) A	B	C	CONN. KVA	MULT	DESN KVA
LIGHTING	0.00	0.00	0.00	0.00	1.25	0.00
RECEPTACLE	0.00	0.00	0.00	0.00	NEC	0.00
MOTOR	1.40	0.75	0.00	2.15	NEC	2.69
LARGEST MOTOR	HP:		FLC	#N/A		
	V/PH:		KVA	#N/A		
HEAT	0.00	0.00	0.00	0.00	1.00	0.00
KITCHEN	0.00	0.00	0.00	0.00	0.65	0.00
MISCELLANEOUS	0.00	0.00	0.00	0.00	1.00	0.00
TOTAL	1.40	0.75	0.00	2.15		2.69
TOTAL KVA						**2.7**
TOTAL AMPS						**7.5**

PANELBOARD SCHEDULE

BUS SIZE: **225 A** MB SIZE: **225 A** PANEL NAME: **LC** (MECH ROOM 2014)
KAIC RATING: **10** MOUNTING: **SURFACE** VOLTAGE: **208 /120V 3PH, 4W**

CKT	DESCRIPTION	AMP/POLE	LTG	RCPT	MTR	HEAT	KITC	MISC				MISC	KITC	HEAT	MTR	RCPT	LTG	AMP/POLE	DESCRIPTION	CKT
1	RCPT CONN CORRIDOR	20/1		1.80					1	A	2					0.90		20/1	RCPT CONV CORRIDORS	2
3	RCPT CONV, R-ROOM	20/1		0.90					3	B	4					1.00		20/1	RCPT VIDEO VISIT 2010/11	4
5	SPARE	20/1							5	C	6					1.20		20/1	RCPT MWAVE BREAK RM	6
7	RCPT CONV BREAK RM	20/1		0.36					7	A	8					1.20		20/1	RCPT COFFEE BREAK RM	8
9	RCPT REFR BREAK RM	20/1		0.75					9	B	10					0.72		20/1	RCPT MEDICAL	10
11	RCPT R-RM, AUTO FLUSH	20/1		0.36					11	C	12					1.00		20/1	RCPT CHARGING STATION	12
13	RCPT CHARGING STATION	20/1		1.00					13	A	14					0.90		20/1	RCPT CONVENIENCE	14
15	RCPT VISIT DEVICES	20/1		0.54					15	B	16					0.72		20/1	RCPT MEDICAL 2303	16
17	RCPT CONVENIENCE	20/1		0.72					17	C	18					0.75		20/1	RCPT CLUSTER CONTROL	18
19	RCPT CLUSTER CONTROL	20/1		0.75					19	A	20					0.75		20/1	RCPT CLUSTER CONTROL	20
21	RCPT DAY RM 2201 (R2-33)	20/1		1.08					21	B	22					1.00		20/1	RCPT 2307 KIOSK	22
23	RCPT TV 2201 (R2-34)	20/1		1.00					23	C	24					1.00		20/1	RCPT 2307 KIOSK	24
25	RCPT DAY RM 2301 (R2-35)	20/1		1.08					25	A	26					0.54		20/1	RCPT CONVENIENCE TIER	26
27	RCPT TV 2301 (R2-36)	20/1		1.00					27	B	28					1.00		20/1	RCPT 2207 KIOSK	28
29	RCPT DAY RM 2101 (R2-31)	20/1		1.08					29	C	30					1.00		20/1	RCPT 2207 KIOSK	30
31	RCPT TV 2101 (R2-32)	20/1		1.00					31	A	32					1.00		20/1	RCPT 2107 KIOSK	32
33	RCPT M/PURP 2304 (R2-39)	20/1		0.54					33	B	34					1.00		20/1	RCPT 2107 KIOSK	34
35	RCPT M/PURP 2204 (R2-38)	20/1		0.54					35	C	36					0.54		20/1	RCPT HOUSING ST 2302	36
37	RCPT M/PURP 2104 (R2-37)	20/1		0.54					37	A	38					0.90		20/1	RCPT CONV RM 2015	38
39	RCPT HOUSING ST 2202	20/1		0.54					39	B	40					0.75		20/1	J-BOX A-C PNL RM 2015	40
41	RCPT MEDICAL 2203	20/1		0.72					41	C	42					0.75		20/1	J-BOX A-C PNL RM 2015	42
43	RCPT CHARGING STATION	20/1		1.00					43	A	44					0.75		20/1	J-BOX SEC ELEC RM 2015	44
45	RCPT CHARGING STATION	20/1		1.00					45	B	46					0.75		20/1	J-BOX SEC ELEC RM 2015	46
47	RCPT MEDICAL 2103	20/1		0.72					47	C	48					0.75		20/1	J-BOX SEC ELEC RM 2015	48
49	RCPT CHARGING STATION	20/1		1.00					49	A	50					0.75		20/1	J-BOX SEC ELEC RM 2015	50
51	RCPT CHARGING STATION	20/1		1.00					51	B	52					0.75		20/1	J-BOX SEC ELEC RM 2015	52
53	RCPT HOUSING ST 2102	20/1		0.54					53	C	54					0.75		20/1	J-BOX SEC ELEC RM 2015	54
55	RCPT CONVENIENCE LV...	20/1		0.36					55	A	56								BLANK	56
57	RCPT CON 2014 MECH L...	20/1		0.90					57	B	58								BLANK	58
59	RCPT TMV-1 & RP-1	20/1		1.20					59	C	60								BLANK	60
61	RCPT CONVENIENCE LV...	20/1		0.54					61	A	62					1.00		20/1	RCPT VESDA PANEL	62
63	RCPT BOILERS 1 & 2	20/1		1.00					63	B	64					0.75		20/1	RCPT MECH EMS CABINET	64
65	RCPT BOILERS 3 & 4	20/1		1.00					65	C	66				0.94			15/2	VRF-01/01 &01/02 & 01/08	66
67	RCPT M/D & HYDR VALVE	15/1		0.30					67	A	68				0.94				& 01/09 & FS-01/01 & 01/03	68
69	RCPT M/D & HYDR VALVE	15/1		0.30					69	B	70				1.20			15/2	VRF-02/01 & 02/02 & 02/04	70
71	RCPT M/D & HYDR VALVE	15/1		0.30					71	C	72				1.20					72
73	RCPT HYDR VALVE/ACTU	15/1		0.20					73	A	74							125/3	UPS (PANEL SE) RM 2015	74
75	RCPT HYDR VALVE/ACTU	15/1		0.20					75	B	76								30KVA	76
77	PWR CUT OFF (RELAY)	20/1		1.50					77	C	78								DUAL FEED	78
79	PANEL IT2	60/3		6.80					79	A	80					10.50		125/3	UPS (PANEL SE) RM 2015	80
81	(I.T. ROOM 2014)			6.10					81	B	82					9.75			30KVA	82
83				2.16					83	C	84					11.25			(SECURITY ELECTRONICS)	84
	TOTALS		0.00	44.42	0.00	0.00	0.00	0.00				0.00	0.00	0.00	4.28	56.37	0.00		TOTALS	

LOAD	LOAD (KVA) A	B	C	CONN. KVA	MULT	DESN KVA
LIGHTING	0.00	0.00	0.00	0.00	1.25	0.00
RECEPTACLE	35.92	34.04	30.83	100.79	NEC	55.40
MOTOR	0.94	1.20	2.14	4.28	NEC	4.28
LARGEST MOTOR	HP:	0.75	FLC	13.80		2.00
	V/PH:	120/1	KVA	1.66		3.00
HEAT	0.00	0.00	0.00	0.00	1.00	0.00
KITCHEN	0.00	0.00	0.00	0.00	0.65	0.00
MISCELLANEOUS	0.00	0.00	0.00	0.00	1.00	0.00
TOTAL	36.86	35.24	32.97	105.07		59.68
TOTAL KVA						**59.7**
TOTAL AMPS						**165.6**

NOTES:
1. PROVIDE HACR BREAKERS FOR ALL HVAC EQUIPMENT
2. PROVIDE A TYPED BREAKER SCHEDULE ON THE INSIDE OF THE DOOR

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
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BRINKLEY SARGENT WIGINTONARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

JOHN VINCENT 108939 LICENSED PROFESSIONAL ENGINEER

PANELBOARD SCHEDULES

21913
7/13/2021
E013

FOR BID

FAN SCHEDULE

ITEM	SERVES	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
		HP/(W)	V/PH	AMPS				
SEF-01	ZONE 1 - SMOKE EXHAUST	15	480/3	21	HE-1/3/5	40/3	3 #10, 1 #10G, 3/4" C	3P/60A/35AF/3R
SEF-02	ZONE 2 - SMOKE EXHAUST	40	480/3	52	HE-7/9/11	100/3	3 #4, 1 #8G, 1.25" C	3P/100A/80AF/3R
SEF-03	ZONE 3 - SMOKE EXHAUST	40	480/3	52	HE-13/15/17	100/3	3 #4, 1 #8G, 1.25" C	3P/100A/80AF/3R
SEF-04	ZONE 4 - SMOKE EXHAUST	30	480/3	40	HE-19/21/23	80/3	3 #6, 1 #8G, 1" C	3P/60A/60AF/3R
SEF-05	ZONE 5 - SMOKE EXHAUST	5	480/3	7.6	HE-25/27/29	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/12AF/3R
SEF-06	ZONE 6 - SMOKE EXHAUST	2	480/3	3.4	HE-31/33/35	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/5AF/3R
SEF-07	ZONE 7 - SMOKE EXHAUST	5	480/3	7.6	HE-37/39/41	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/12AF/3R
SSF-01	ZONE 1 - SMOKE MUA	10	480/3	14	HD-1/3/5	25/3	3 #12, 1 #12G, 3/4" C	3P/30A/20AF/1R
SSF-02	ZONE 2 - SMOKE MUA	25	480/3	34	HD-7/9/11	70/3	3 #6, 1 #10G, 1" C	3P/60A/50AF/1R
SSF-03A	ZONE 3 - SMOKE MUA	15	480/3	21	HD-13/15/17	40/3	3 #10, 1 #10G, 3/4" C	3P/60A/35AF/1R
SSF-03B	ZONE 3 - SMOKE MUA	10	480/3	14	HD-19/21/23	25/3	3 #12, 1 #12G, 3/4" C	3P/30A/20AF/1R
SSF-03C	ZONE 3 - SMOKE MUA	15	480/3	21	HD-25/27/29	40/3	3 #10, 1 #10G, 3/4" C	3P/60A/35AF/1R
SSF-04	ZONE 4 - SMOKE MUA	25	480/3	34	HD-31/33/35	70/3	3 #6, 1 #10G, 1" C	3P/60A/50AF/1R
SSF-05	ZONE 5 - SMOKE MUA	3	480/3	4.8	HC-19/21/23	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/7AF/1R
SSF-06	ZONE 6 - SMOKE MUA	1.5	480/3	3	HD-37/39/41	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/4.5AF/1R
SSF-07	ZONE 7 - SMOKE MUA	5	480/3	7.6	HD-43/45/47	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/12AF/3R
SPEF-01	VEHICLE SALLY PORT EXHAUST	5	480/3	7.6	HB-1/3/5	15/3	3 #12, 1 #12G, 3/4" C	3P/30A/12AF/3R
EF-01	LOWER LEVEL - EXHAUST	2	208/1	13.2	LA-63/65	25/2	2 #12, 1 #12G, 3/4" C	2P/30A/20AF/1R
EF-02	LOWER LEVEL - EXHAUST	1/4	120/1	5.8	LB-58	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-03	LOWER LEVEL - EXHAUST	3/4	120/1	14	LB-74	25/1	2 #12, 1 #12G, 3/4" C	1P/30A/25A/1R
EF-04	NE RR / SHOWER - EXHAUST	1/4	120/1	5.8	LD-10	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-05	NE DORM - EXHAUST	1/4	120/1	5.8	LD-12	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-06	NE DORM - EXHAUST	1/4	120/1	5.8	LD-14	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-07	SW DORM - EXHAUST	1/4	120/1	5.8	LD-16	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-08	SW DORM - EXHAUST	1/4	120/1	5.8	LD-18	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-09	SW RR / SHOWER - EXHAUST	1/4	120/1	5.8	LD-20	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-10	SE RR / SHOWER - EXHAUST	1/4	120/1	5.8	LD-22	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-11	STAFF RR - EXHAUST	(54)	120/1	0.55	LD-32	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-12	STAFF RR - EXHAUST	(42)	120/1	0.45			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-13	SE RR - EXHAUST	1/4	120/1	5.8	LD-24	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-14	STAFF RR - EXHAUST	(80)	120/1	1	ON LD-26	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-15	LOWER LEVEL - EXHAUST	2	208/1	13.2	LA-67/69	25/2	2 #12, 1 #12G, 3/4" C	2P/30A/20AF/1R
EF-16	LOWER LEVEL - EXHAUST	1	120/1	16	LA-71	30/1	2 #10, 1 #10G, 3/4" C	1P/30A/25AF/1R
EF-17	LOWER LEVEL - EXHAUST	(80)	120/1	1	ON LD-26		2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
EF-18	MECH ROOM 2014 EXHAUST	1/2	120/1	9.8	LD-48	20/1	2 #12, 1 #12G, 3/4" C	1P/30A/20AF/3R

UNIT HEATERS

ITEM	SERVES/LOCATION	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
		KW	V/PH	MOCP				
UH-01	MECHANICAL 2014	HYDRONIC	120/1	15	LD-34	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-02	MECH/ELEC 1027	HYDRONIC	120/1	15	LB-60	15/1	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-03	VEHICLE SALLY PORT 1001	HYDRONIC	120/1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-04	VEHICLE SALLY PORT 1001	HYDRONIC	120/1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-05	VEHICLE SALLY PORT 1001	HYDRONIC	120/1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-06	FIRE ROOM 1025	HYDRONIC	120/1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER
UH-07	LEVEL 1	3	277/1	15	HC-37	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-08	LEVEL 1	3	277/1	15	HC-39	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-09	BOILER 2023	20	480/3	30	HC-43/45/47	30/3	3 #10, 1 #10G, 3/4" C	3P/30A/30AF/1R
UH-10	ALTERNATE #1	3	277/1	15	HC-41	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-11	ALTERNATE #1	3	277/1	15	HC-49	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-12	ALTERNATE #1	3	277/1	15	HC-51	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-13	STAIR ST-03	4.8	277/1	20	HB-26	20/1	2 #12, 1 #12G, 3/4" C	1P/20A SWITCH
UH-14	STAIR ST-02	4.8	277/1	20	HB-28	20/1	2 #12, 1 #12G, 3/4" C	1P/20A SWITCH
UH-15	STAIR ST-01	4.8	277/1	20	HB-30	20/1	2 #12, 1 #12G, 3/4" C	1P/20A SWITCH
UH-16	LOWER LEVEL	3	277/1	15	HB-32	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
UH-17	LOWER LEVEL	3	277/1	15	HB-34	15/1	2 #12, 1 #12G, 3/4" C	1P/15A SWITCH
1 UH-18	STORAGE 028	HYDRONIC	120	15	ON LB-60		2 #12, 1 #12G, 3/4" C	1P/15A SWITCH

PUMP SCHEDULE

ITEM	SERVES	ELECTRICAL				CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
		HP	V/PH	MCA	MOCP				
CHWP-1	CHILLED WATER	15	480/3	27	40	HB-14/16/18	40/3	3 #10, 1 #10G, 3/4" C	3P/60A/35AF/1R
CHWP-2	CHILLED WATER	15	480/3	27	40	HB-20/22/24	40/3	3 #10, 1 #10G, 3/4" C	3P/60A/35AF/1R
HHWP-1	HOT WATER	7.5	480/3	11	20	HC-25/27/29	20/3	3 #12, 1 #12G, 3/4" C	3P/30A/17.5AF/1R
HHWP-2	HOT WATER	7.5	480/3	11	20	HC-31/33/35	20/3	3 #12, 1 #12G, 3/4" C	3P/30A/17.5AF/1R

LOUVER SCHEDULE

ITEM	SERVES	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
		V/PH	MCA	MOCP				
L1	VEHICLE SALLY PORT	120/1	1	15	LB-61	15/1	2 #12, 1 #12G, 3/4" C	1P SWITCH
L2	VEHICLE SALLY PORT	120/1	1	15			2 #12, 1 #12G, 3/4" C	1P SWITCH
L3	VEHICLE SALLY PORT	120/1	1	15			2 #12, 1 #12G, 3/4" C	1P SWITCH
L-25	LOWER LEVEL, NORTH WALL	120/1	1	15	LA-50	15/1	2 #12, 1 #12G, 3/4" C	1P SWITCH

MOTORIZED DAMPER SCHEDULE

ITEM	SERVES	ZONE	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
			V/PH	MCA	MOCP				
M-1A	AHU-I-1	5	120/1	0.6	15	ON LC-67	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-1B	AHU-I-1	5	120/1	0.6	15				
M-1C	AHU-I-1	5	120/1	0.6	15				
M-1D	SSF-05	5	120/1	0.6	15				
M-2A	AHU-I-2	6	120/1	0.6	15	ON LC-69	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-2B	AHU-I-2	6	120/1	0.6	15				
M-2C	AHU-I-2	6	120/1	0.6	15				
M-2D	SSF-06	6	120/1	0.6	15				
M-3A	AHU-I-3	7	120/1	0.6	15	ON LC-71	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-3B	AHU-I-3	7	120/1	0.6	15				
M-3C	AHU-I-3	7	120/1	0.6	15				
M-3D	SSF-07	7	120/1	0.6	15				
M-6A	AHU-I-6	3	120/1	0.6	15	ON LD-36	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-6B	SEF-03	3	120/1	0.6	15				
M-6C	AHU-I-6	3	120/1	0.6	15				
M-6D	SSF-03A / SSF-03B / SSF-03C	3	120/1	0.6	15				
1 M-6E	AHU-I-6	3	120/1	0.6	15				
M-7A	SSF-02	2	120/1	0.6	15	ON LD-38	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-7B	AHU-I-7	2	120/1	0.6	15				
M-7C	AHU-I-7	2	120/1	0.6	15				
M-7D	SEF-02	2	120/1	0.6	15				
M-7E	AHU-I-7	2	120/1	0.6	15				
M-8A	SSF-01	1	120/1	0.6	15	ON LD-40	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-8B	AHU-I-8	1	120/1	0.6	15				
M-8C	AHU-I-8	1	120/1	0.6	15				
1 M-8D	AHU-I-8	1	120/1	0.6	15				
M-9A	AHU-I-9	4	120/1	0.6	15	ON LD-42	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
M-9B	SEF-04	4	120/1	0.6	15				
M-9C	AHU-I-9	4	120/1	0.6	15				
M-9D	SSF-04	4	120/1	0.6	15				
1 M-9E	AHU-I-9	4	120/1	0.6	15				

HYDRONIC WATER VALVE/ACTUATOR SCHEDULE

ITEM	ASSOCIATED EQUIPMENT	LEVEL	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT
			V/PH	MCA	MOCP				
CCV-1	AHU-I-1	1	120/1	0.2	15	ON LC-67	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-1	AHU-I-1	1	120/1	0.2	15				
CCV-2	AHU-I-2	1	120/1	0.2	15	ON LC-69	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-2	AHU-I-2	1	120/1	0.2	15				
CCV-3	AHU-I-3	1	120/1	0.2	15	ON LC-71	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-3	AHU-I-3	1	120/1	0.2	15				
CCV-4	AHU-I-4	1	120/1	0.2	15	LC-73	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
HCV-4	AHU-I-4	1	120/1	0.2	15				
CCV-5	AHU-I-5	1	120/1	0.2	15	LC-75	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
HCV-5	AHU-I-5	1	120/1	0.2	15				
CCV-6	AHU-I-6	TIER	120/1	0.2	15	ON LD-36	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-6	AHU-I-6	TIER	120/1	0.2	15				
CCV-7	AHU-I-7	TIER	120/1	0.2	15	ON LD-38	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-7	AHU-I-7	TIER	120/1	0.2	15				
CCV-8	AHU-I-8	TIER	120/1	0.2	15	ON LD-40	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-8	AHU-I-8	TIER	120/1	0.2	15				
CCV-9	AHU-I-9	TIER	120/1	0.2	15	ON LD-42	SEE MOTORIZED DAMPER SCHEDULE , SAME CIRCUIT AND BREAKER		
HCV-9	AHU-I-9	TIER	120/1	0.2	15				
CCV-10	AHU-I-1-0	TIER	120/1	0.2	15	LD-44	15/1	2 #12, 1 #12G, 3/4" C	RECEPTACLE
HCV-10	AHU-I-1-0	TIER	120/1	0.2	15				

RELAY SCHEDULE - PANEL R1 (BOOKING/INTAKE)

LOCATION: ELECTRICAL ROOM 1026

NUMBER	CIRCUIT	DESCRIPTION/ROOM	LOAD	VOLTS	REMARKS
R1-1	HB-27	HOLDING CELL 1330	LIGHT	277	HOLDING CELLS ON EAST AND WEST SIDE OF INTAKE/BOOKING AREA
R1-2		HOLDING CELL 1329	LIGHT	277	
R1-3		HOLDING CELL 1328	LIGHT	277	
R1-4		HOLDING CELL 1327	LIGHT	277	
R1-5		HOLDING CELL 1326	LIGHT	277	
R1-6		HOLDING CELL 1325	LIGHT	277	
R1-7		HOLDING CELL 1323	LIGHT	277	
R1-8		HOLDING CELL 1322	LIGHT	277	
R1-9		HOLDING CELL 1007	LIGHT	120	
R1-10		HOLDING CELL 1008	LIGHT	277	
R1-11		HOLDING CELL 1009	LIGHT	277	
R1-12		HOLDING CELL 1011	LIGHT	277	
R1-13		HOLDING CELL 1024	LIGHT	277	
R1-14		HOLDING CELL 1118	LIGHT	277	
R1-15		HOLDING CELL 1119	LIGHT	277	
R1-16		HOLDING CELL 1121	LIGHT	277	
R1-17		HOLDING CELL 1122	LIGHT	277	
R1-18		HOLDING CELL 1123	LIGHT	277	
R1-19		HOLDING CELL 1124	LIGHT	277	
R1-20		HOLDING CELL 1125	LIGHT	277	
R1-21		HOLDING CELL 1126	LIGHT	277	
R1-22	HB-21	VEHICLE SALLY PORT	LIGHT	277	LIGHTS IN CENTER ROW ONLY
R1-23	HB-1/3/5	VEHICLE SALLY PORT	FAN	480/3	EXTRACTOR FAN SPEF-01
R1-24		SPARE			
R1-25	LB-50	TVs WAITING 1105 & 1106	RECEPTACLES	120	TVs- POWER ABOVE CEILING
R1-26	LB-51	TVs WAITING 1105 & 1106	RECEPTACLES	120	
R1-27		SPARE			
R1-28		SPARE			
R1-29		SPARE			
R1-30		SPARE			
R1-31		SPARE			
R1-32		SPARE			

RELAY SCHEDULE - PANEL R2 (LEVEL 1)

LOCATION: LEVEL 1 MECHANICAL 2013

NUMBER	CIRCUIT	DESCRIPTION/ROOM	LOAD	VOLTS	REMARKS
R2-1	HC-53	DORMS 2111, 2113, 2117, 2118,...	LIGHT	277	DORMITORIES
R2-2		CELL 2235	LIGHT	277	DOUBLE OCCUPANCY CELL
R2-3		CELL 2234	LIGHT	277	
R2-4		CELL 2233	LIGHT	277	
R2-5		CELL2232	LIGHT	277	
R2-6		CELL 2228	LIGHT	120	
R2-7		CELL 2227	LIGHT	277	
R2-8		CELL 2226	LIGHT	277	
R2-9		CELL 2225	LIGHT	277	
R2-10		CELL 2223	LIGHT	277	
R2-11		CELL 2222	LIGHT	277	
R2-12		CELL 2221	LIGHT	277	
R2-13		CELL 2216	LIGHT	277	
R2-14		CELL 2215	LIGHT	277	
R2-15		CELL 2214	LIGHT	277	
R2-16		CELL 2213	LIGHT	277	
R2-17		CELL 2212	LIGHT	277	
R2-18		CELL 2211	LIGHT	277	
R2-19		CELL 2209	LIGHT	277	
R2-20		DORMS 2311, 2312, 2313, 2316,...	LIGHT	277	DORMITORIES
R2-21	HC-55	R/ROOM 2114, 2115, 2116,...	LIGHT	277	WALKWAY & RESTROOMS
R2-22		R/ROOM 2217/2218, 2229,...	LIGHT	277	
R2-23		R/ROOM 2314/2315, WALKWAY	LIGHT	277	
R2-24		ALTERNATE #1	LIGHT	277	FUTURE
R2-25		ALTERNATE #1	LIGHT	277	
R2-26		ALTERNATE #1	LIGHT	277	
R2-27		ALTERNATE #1	LIGHT	277	
R2-28		ALTERNATE #1	LIGHT	277	
R2-29		SPARE			
R2-28		SPARE			
R2-29		SPARE			
R2-30		SPARE			
R2-31	LC-29	RCPT DAYROOM 2101	RECEPTACLE	120	CONVENIENCE
R2-32	LC-31	TV's DAYROOM 2101	RECEPTACLE	120	TELEVISIONS
R2-33	LC-21	RCPT DAYROOM 2201	RECEPTACLE	120	CONVENIENCE
R2-34	LC-23	TV's DAYROOM 2201	RECEPTACLE	120	TELEVISIONS
R2-35	LC-25	RCPT DAYROOM 2301	RECEPTACLE	120	CONVENIENCE
R2-36	LC-27	TV's DAYROOM 2301	RECEPTACLE	120	TELEVISIONS
R2-37	LC-37	RCPT MULTIPURPOSE 2104	RECEPTACLE	120	CONVENIENCE
R2-38	LC-35	RCPT MULTIPURPOSE 2204	RECEPTACLE	120	
R2-39	LC-33	RCPT MULTIPURPOSE 2304	RECEPTACLE	120	
R2-40		ALTERNATE #1	RECEPTACLE	120	FUTURE
R2-41		ALTERNATE #1	RECEPTACLE	120	
R2-42		ALTERNATE #1	RECEPTACLE	120	
R2-43		SPARE			
R2-44		SPARE			
R2-45		SPARE			
R2-46		SPARE			
R2-47		SPARE			
R2-48		SPARE			

RELAY SCHEDULE - PANEL R3 (TIER LEVEL)

LOCATION: LEVEL 1 MECHANICAL 2013

NUMBER	CIRCUIT	DESCRIPTION	LOAD	VOLTS	REMARKS
R3-1	HD-53	DORMS 3101, 3104, 3108, 3109,...	LIGHT	277	DORMITORIES
R3-2		CELL 3227	LIGHT	277	DOUBLE OCCUPANCY CELL
R3-3		CELL 3226	LIGHT	277	
R3-4		CELL 3225	LIGHT	277	
R3-5		CELL 3224	LIGHT	277	
R3-6		CELL 3221	LIGHT	277	
R3-7		CELL 3219	LIGHT	277	
R3-8		CELL 3218	LIGHT	277	
R3-9		CELL 3217	LIGHT	277	
R3-10		CELL 3215	LIGHT	277	
R3-11		CELL 3214	LIGHT	277	
R3-12		CELL 3213	LIGHT	277	
R3-13		CELL 3207	LIGHT	277	
R3-14		CELL 3206	LIGHT	277	
R3-15		CELL 3205	LIGHT	277	
R3-16		CELL 3204	LIGHT	277	
R3-17		CELL 3203	LIGHT	277	
R3-18		CELL 3202	LIGHT	277	
R3-19		CELL 3201	LIGHT	277	
R3-20	HD-55	DORMS 3301, 3302, 3305, 3306	LIGHT	277	DORMITORIES
R3-21		R/ROOM 3105/3106, 3107,...	LIGHT	277	WALKWAY & RESTROOMS
R3-22		R/ROOM 3208/3209, 3222, VES...	LIGHT	277	DORMITORIES
R3-23		R/ROOM 3303/3304, WALKWAY	LIGHT	277	WALKWAY & RESTROOM
R3-24	HD-57	DAYROOM 2201	LIGHT	277	DAYROOM
R3-25		DAYROOM 2201	LIGHT	277	
R3-26		DAYROOM 2301	LIGHT	277	
R3-27	HD-59	EXERCISE YARD 2108	LIGHT	277	OUTDOOR EXERCISE YARD
R3-28		EXERCISE YARD 2208	LIGHT	277	
R3-29		EXERCISE YARD 2308	LIGHT	277	
R3-30	LC-77	WATER CUT-OFF VALVE	VALVE	120	IN TRIANGULAR CHASE (2106)
R3-31		WATER CUT-OFF VALVE	VALVE	120	IN TRIANGULAR CHASE (2206)
R3-32		WATER CUT-OFF VALVE	VALVE	120	IN TRIANGULAR CHASE (2306)
R3-33		SPARE			
R3-34		SPARE			
R3-35		SPARE			
R3-36		SPARE			
R3-37		SPARE			
R3-38		SPARE			
R3-39		SPARE			
R3-40		SPARE			
R3-41		SPARE			
R3-42		SPARE			
R3-43		SPARE			
R3-44		SPARE			
R3-45		SPARE			
R3-46		SPARE			
R3-47		SPARE			
R3-48		SPARE			

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS — JOHN VINCENT — 108939 — LICENSED PROFESSIONAL ENGINEER — 8.9.21

RELAY / POWER TO MECHANICAL SCHEDULES

FOR BID

21913 | 7/13/2021 | E015

MD ENGINEERING
Texas Registered Engineering Firm No. F-7469
1255 West 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

GENERAL NOTES:

1. REFER TO DRAWING E011 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
7. LIGHT FIXTURE IN INMATE AREAS SHALL BE CONTROLLED VIA RELAYS BY THE SECURITY ELECTRONICS SYSTEM. REFER TO RELAY SCHEDULES AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTORS.
8. ALL EMERGENCY SIGNS AN LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
10. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION.

NOTES BY SYMBOL "◯":

1 TYPE Y WALL MOUNTED FIXTURE ABOVE DOOR TO INDICATE OCCUPANCY. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO OPERATE LIGHT. SET ON TIME TO MINIMUM VALUE.

2 PROVIDE DUAL TECHNOLOGY SWITCH MOUNTED OCCUPANCY SENSOR.

3 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.

4 ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-25. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

5 FIXTURES SHALL BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSORS. FIXTURES SHALL BE CONTROLLED GLOBALLY, INDIVIDUALLY FIXTURES SENSORS ARE NOT ACCEPTABLE. TYPICAL FOR ALL FIXTURES IN TWO OUTSIDE COLUMNS. CONDUITS SHALL BE SURFACE MOUNTED.

6 FIXTURES SHALL BE CONTROLLED BY SECURITY ELECTRONICS TOUCH SCREEN CONNECT THROUGH RELAY R1-22 AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTOR. TYPICAL FOR ALL FIXTURES IN CENTER COLUMN. CONDUITS SHALL BE SURFACE MOUNTED.

1 LOWER LEVEL EAST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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1255 West 15th Street, Suite 300 - Plano, TX 75075
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Email: mdengus@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

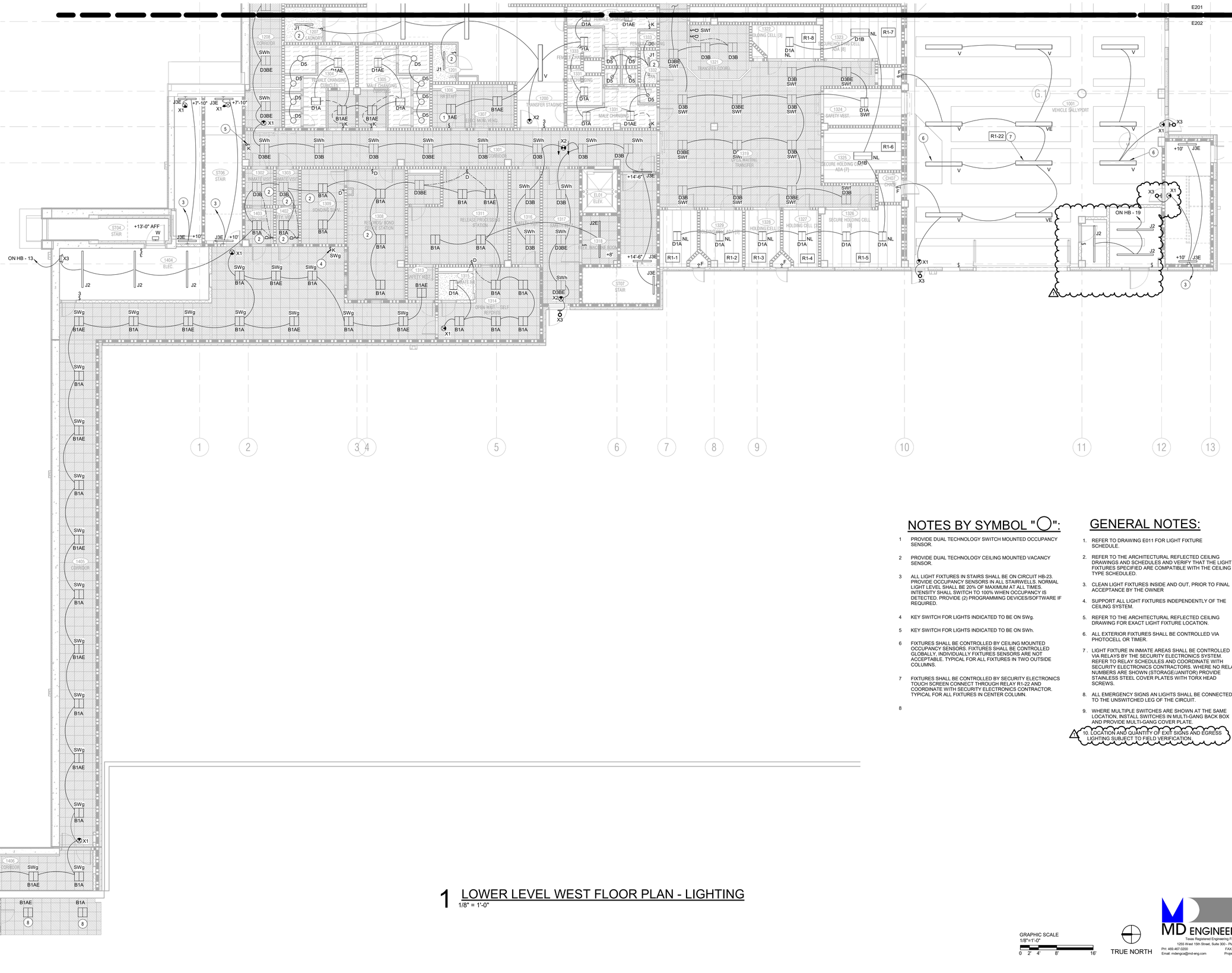
HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED PROFESSIONAL ENGINEER

LOWER LEVEL EAST FLOOR PLAN - LIGHTING

FOR BID

21913
7/13/2021
E201



1 LOWER LEVEL WEST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

NOTES BY SYMBOL "◯":

1 PROVIDE DUAL TECHNOLOGY SWITCH MOUNTED OCCUPANCY SENSOR.

2 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.

3 ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-23. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

4 KEY SWITCH FOR LIGHTS INDICATED TO BE ON SWg.

5 KEY SWITCH FOR LIGHTS INDICATED TO BE ON SWh.

6 FIXTURES SHALL BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSORS. FIXTURES SHALL BE CONTROLLED GLOBALLY, INDIVIDUALLY FIXTURES SENSORS ARE NOT ACCEPTABLE. TYPICAL FOR ALL FIXTURES IN TWO OUTSIDE COLUMNS.

7 FIXTURES SHALL BE CONTROLLED BY SECURITY ELECTRONICS TOUCH SCREEN CONNECT THROUGH RELAY R1-22 AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTOR. TYPICAL FOR ALL FIXTURES IN CENTER COLUMN.

8

GENERAL NOTES:

1. REFER TO DRAWING E011 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
7. LIGHT FIXTURE IN INMATE AREAS SHALL BE CONTROLLED VIA RELAYS BY THE SECURITY ELECTRONICS SYSTEM. REFER TO RELAY SCHEDULES AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTORS. WHERE NO RELAY NUMBERS ARE SHOWN (STORAGE/JANITOR) PROVIDE STAINLESS STEEL COVER PLATES WITH TORX HEAD SCREWS.
8. ALL EMERGENCY SIGNS AN LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
10. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED PROFESSIONAL ENGINEER
8.19.21

LOWER LEVEL WEST FLOOR PLAN - LIGHTING

21913
7/13/2021
E202

FOR BID

GENERAL NOTES:

1. REFER TO DRAWING E011 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
7. LIGHT FIXTURE IN INMATE AREAS SHALL BE CONTROLLED VIA RELAYS BY THE SECURITY ELECTRONICS SYSTEM. REFER TO RELAY SCHEDULES AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTORS. WHERE NO RELAY NUMBERS ARE SHOWN (STORAGE/JANITORS) PROVIDE STAINLESS STEEL COVER PLATES WITH TORX HEAD SCREWS.
8. ALL EMERGENCY SIGNS AN LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. CONDUIT SHALL BE 7' MINIMUM ABOVE FLOOR. CONDUIT ON WALK AREA IS NOT ALLOWED.
10. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
11. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION. ⚠1

NOTES BY SYMBOL "◯":

1 PROVIDE DUAL TECHNOLOGY SWITCH MOUNTED OCCUPANCY SENSOR.

2 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.

3 PLACE FIXTURES SO NOT TO INTERFERE WITH EQUIPMENT IN ROOM. COORDINATE WITH OTHER TRADES.

4 LIGHT SWITCH/DIMMER FOR ALL FIXTURES IN BULL PEN AREA, SWITCH SWb.

5 LIGHT SWITCH/DIMMER FOR LIGHTS IN MULTIPURPOSE ROOM 2104.

6 LIGHT SWITCH/DIMMER FOR LIGHTS IN MULTIPURPOSE ROOM 2204.

7 LIGHT SWITCH/DIMMER FOR LIGHTS IN MULTIPURPOSE ROOM 2304.

8 CONNECT TO OTHER LIGHTS IN SAME ROOM. CONNECT TO UNSWITCHED LEG OF CIRCUIT.

9 ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-23. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

10 ALL CONDUIT IN MECH 2014 SPACE SHALL BE AT LEAST 7" ABOVE FLOOR LEVEL. CONDUIT RUNS ON THE WALK AREAS ARE NOT ACCEPTABLE.

11 PROVIDE A DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.

1 LEVEL 1 EAST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
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BRINKLEY SARGENT WIGINTONARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

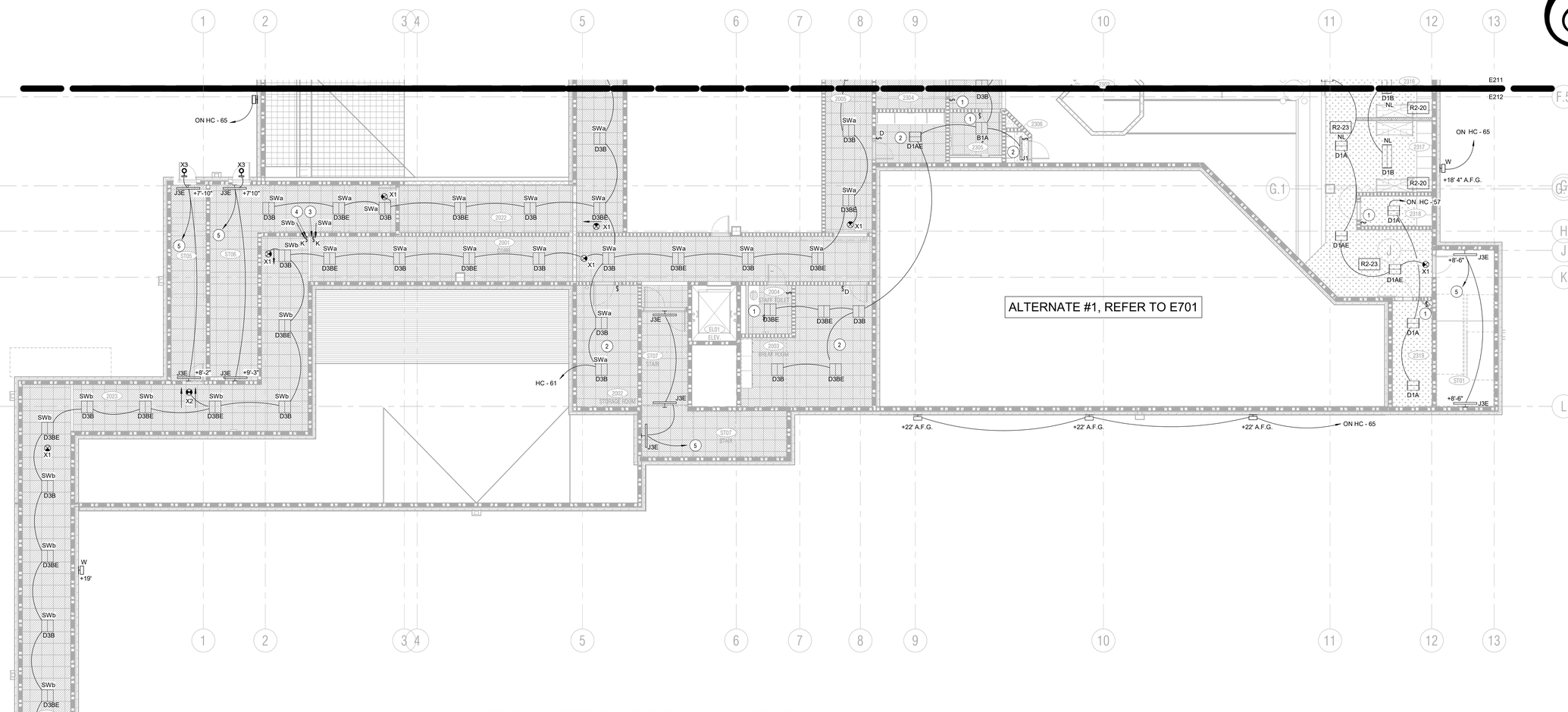
HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED
PROFESSIONAL ENGINEER
8.18.21

LEVEL1 EAST FLOOR PLAN - LIGHTING

FOR BID

21913
7/13/2021
E211



1 LEVEL 1 WEST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

2 LEVEL 1 WEST FLOOR PLAN CONT - LIGHTING
1/8" = 1'-0"

NOTES BY SYMBOL "◯":

1. PROVIDE DUAL TECHNOLOGY SWITCH MOUNTED OCCUPANCY SENSOR.
2. PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
3. KEY SWITCH FOR LIGHTS INDICATED TO BE ON SWa.
4. KEY SWITCH FOR LIGHTS INDICATED TO BE ON SWb.
5. ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-23. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

GENERAL NOTES:

1. REFER TO DRAWING E020 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
7. LIGHT FIXTURE IN INMATE AREAS SHALL BE CONTROLLED VIA RELAYS BY THE SECURITY ELECTRONICS SYSTEM. REFER TO RELAY SCHEDULES AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTORS. WHERE NO RELAY NUMBERS ARE SHOWN (STORAGE/JANITOR) PROVIDE STAINLESS STEEL COVER PLATES WITH TORX HEAD SCREWS.
8. ALL EMERGENCY SIGNS AND LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
10. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION. ⚠1

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED
PROFESSIONAL ENGINEER
7-13-21

LEVEL1 WEST FLOOR PLAN - LIGHTING

21913
7/13/2021
E212

FOR BID

GENERAL NOTES:

1. REFER TO DRAWING E020 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
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8. ALL EMERGENCY SIGNS AND LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. CONDUIT SHALL BE 7' MINIMUM ABOVE FLOOR. CONDUIT ON WALK AREA IS NOT ALLOWED.
10. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
11. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION. 1

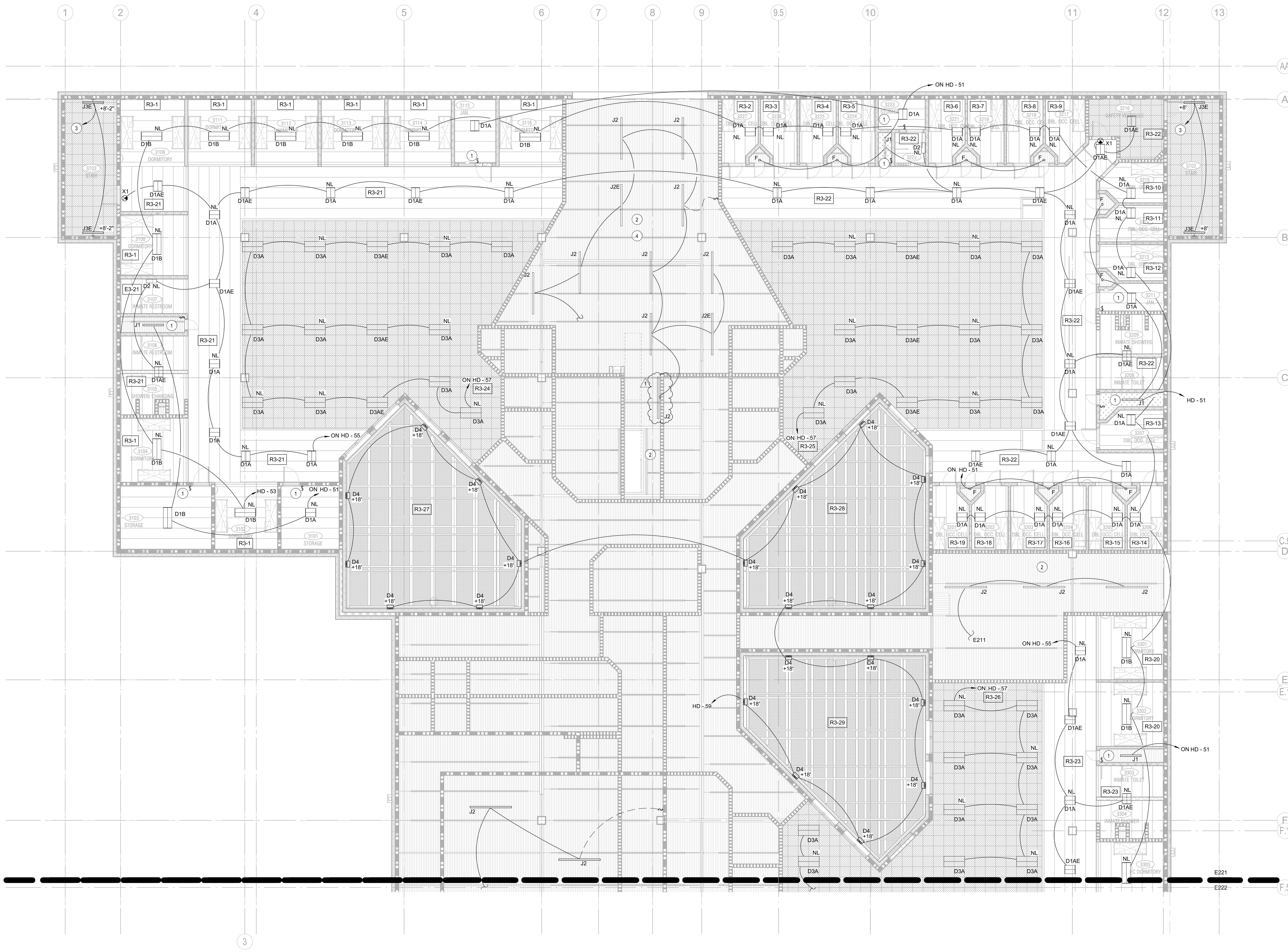
NOTES BY SYMBOL "○":

1 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.

2 PLACE FIXTURES SO NOT INTERFERE WITH EQUIPMENT IN ROOM. COORDINATE WITH OTHER TRADES.

3 ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-23. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

4 ALL CONDUIT IN MECH 2014 SPACE SHALL BE AT LEAST 7" ABOVE FLOOR LEVEL. CONDUIT RUNS ON THE WALK AREAS ARE NOT ACCEPTABLE.



1 TIER LEVEL EAST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect:	Brinkley Sargent Wiginton Architects	(972) 960-9970
Civil:	Pacheco koch	(214) 451-2765
Structural:	JQ Engineering	(214) 752-9098
MEP / IT:	MD Engineers	(469) 467-0200
Security:	LattaTech	(972) 633-5850

BRINKLEY SARGENT WIGINTONARCHITECTS

HISTORY

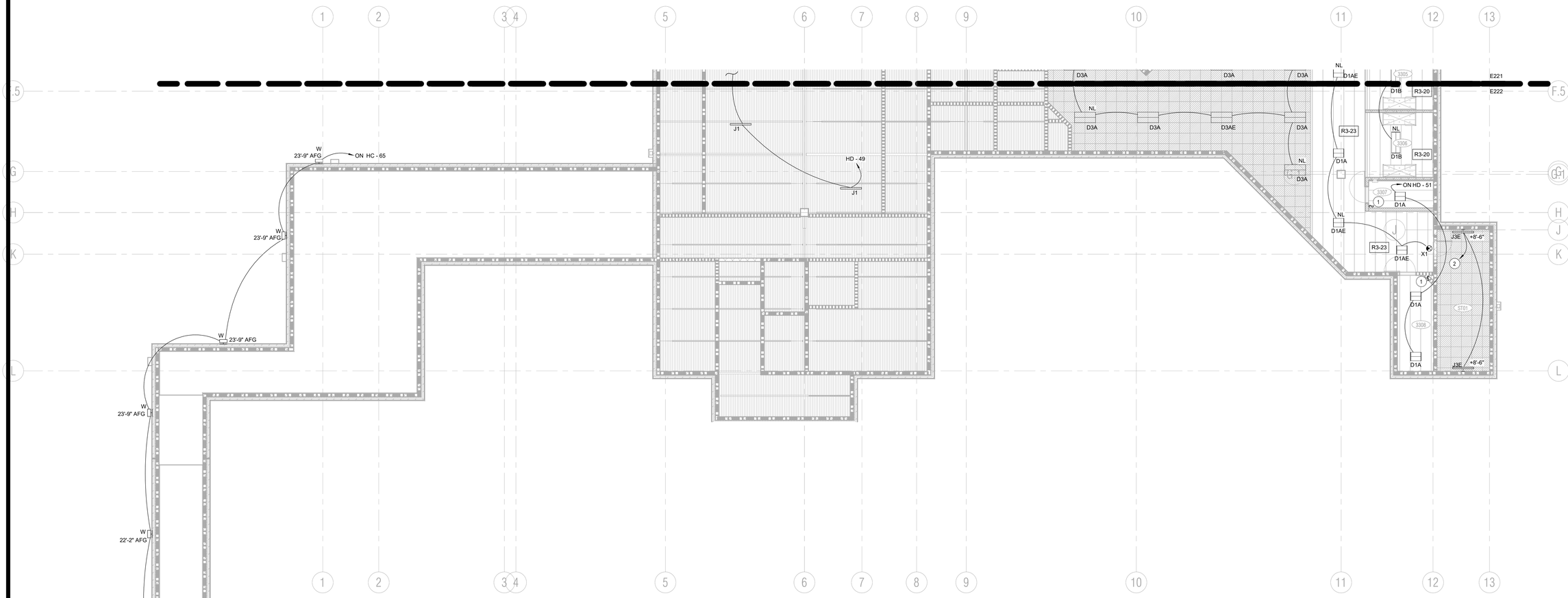
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED PROFESSIONAL ENGINEER
8.17.21

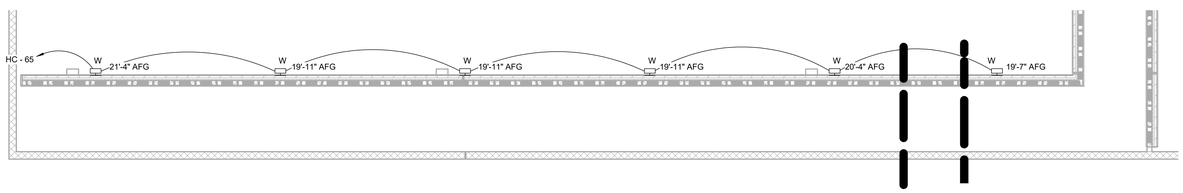
TIER LEVEL EAST FLOOR PLAN - LIGHTING

21913
7/13/2021
E221

FOR BID



1 TIER LEVEL WEST FLOOR PLAN - LIGHTING
1/8" = 1'-0"



2 TIER LEVEL WEST FLOOR PLAN CONT - LIGHTING
1/8" = 1'-0"

NOTES BY SYMBOL "◯":

1 PROVIDE DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.

2 ALL LIGHT FIXTURES IN STAIRS SHALL BE ON CIRCUIT HB-23. PROVIDE OCCUPANCY SENSORS IN ALL STAIRWELLS. NORMAL LIGHT LEVEL SHALL BE 20% OF MAXIMUM AT ALL TIMES. INTENSITY SHALL SWITCH TO 100% WHEN OCCUPANCY IS DETECTED. PROVIDE (2) PROGRAMMING DEVICES/SOFTWARE IF REQUIRED.

GENERAL NOTES:

1. REFER TO DRAWING E020 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS AND SCHEDULES AND VERIFY THAT THE LIGHT FIXTURES SPECIFIED ARE COMPATIBLE WITH THE CEILING TYPE SCHEDULED.
3. CLEAN LIGHT FIXTURES INSIDE AND OUT, PRIOR TO FINAL ACCEPTANCE BY THE OWNER
4. SUPPORT ALL LIGHT FIXTURES INDEPENDENTLY OF THE CEILING SYSTEM.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWING FOR EXACT LIGHT FIXTURE LOCATION.
6. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL OR TIMER.
7. LIGHT FIXTURE IN INMATE AREAS SHALL BE CONTROLLED VIA RELAYS BY THE SECURITY ELECTRONICS SYSTEM. REFER TO RELAY SCHEDULES AND COORDINATE WITH SECURITY ELECTRONICS CONTRACTORS. WHERE NO RELAY NUMBERS ARE SHOWN (STORAGE/JANITOR) PROVIDE STAINLESS STEEL COVER PLATES WITH TORX HEAD SCREWS.
8. ALL EMERGENCY SIGNS AND LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE CIRCUIT.
9. WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, INSTALL SWITCHES IN MULTI-GANG BACK BOX AND PROVIDE MULTI-GANG COVER PLATE.
10. LOCATION AND QUANTITY OF EXIT SIGNS AND EGRESS LIGHTING SUBJECT TO FIELD VERIFICATION.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

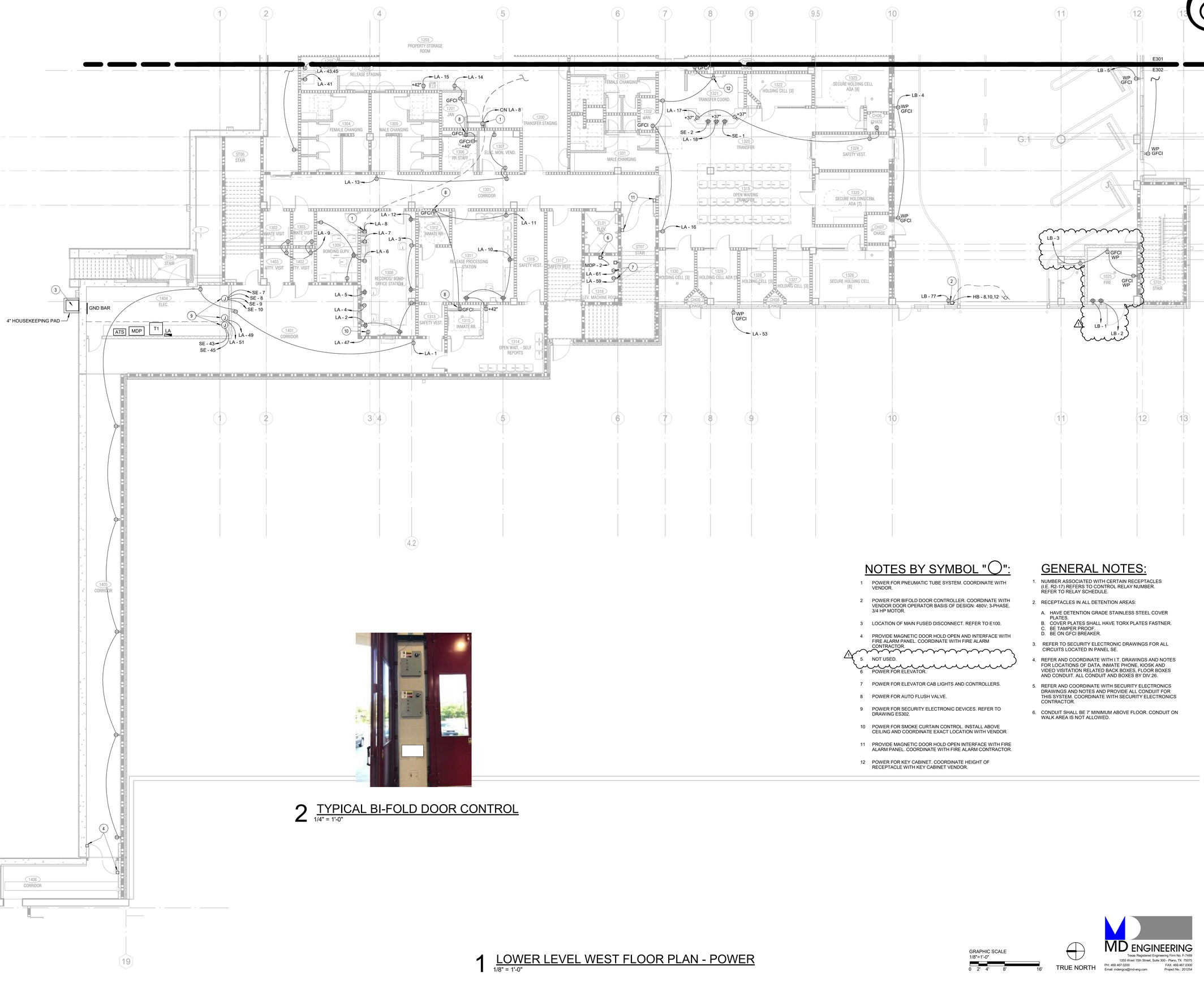
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED
PROFESSIONAL ENGINEER

TIER LEVEL WEST FLOOR PLAN - LIGHTING

21913
7/13/2021
E222

FOR BID



NOTES BY SYMBOL "◯":

1. POWER FOR PNEUMATIC TUBE SYSTEM. COORDINATE WITH VENDOR.
2. POWER FOR BIFOLD DOOR CONTROLLER. COORDINATE WITH VENDOR DOOR OPERATOR BASIS OF DESIGN: 480V; 3-PHASE, 3/4 HP MOTOR.
3. LOCATION OF MAIN FUSED DISCONNECT. REFER TO E100.
4. PROVIDE MAGNETIC DOOR HOLD OPEN AND INTERFACE WITH FIRE ALARM PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR.
5. NOT USED.
6. POWER FOR ELEVATOR.
7. POWER FOR ELEVATOR CAB LIGHTS AND CONTROLLERS.
8. POWER FOR AUTO FLUSH VALVE.
9. POWER FOR SECURITY ELECTRONIC DEVICES. REFER TO DRAWING ES302.
10. POWER FOR SMOKE CURTAIN CONTROL. INSTALL ABOVE CEILING AND COORDINATE EXACT LOCATION WITH VENDOR.
11. PROVIDE MAGNETIC DOOR HOLD OPEN INTERFACE WITH FIRE ALARM PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR.
12. POWER FOR KEY CABINET. COORDINATE HEIGHT OF RECEPTACLE WITH KEY CABINET VENDOR.

GENERAL NOTES:

1. NUMBER ASSOCIATED WITH CERTAIN RECEPTACLES (I.E. R2-17) REFERS TO CONTROL RELAY NUMBER. REFER TO RELAY SCHEDULE.
2. RECEPTACLES IN ALL DETENTION AREAS:
   - A. HAVE DETENTION GRADE STAINLESS STEEL COVER PLATES.
   - B. COVER PLATES SHALL HAVE TORX PLATES FASTNER.
   - C. BE TAMPER PROOF.
   - D. BE ON GFCI BREAKER.
3. REFER TO SECURITY ELECTRONIC DRAWINGS FOR ALL CIRCUITS LOCATED IN PANEL SE.
4. REFER AND COORDINATE WITH I.T. DRAWINGS AND NOTES FOR LOCATIONS OF DATA, INMATE PHONE, KIOSK AND VIDEO VISITATION RELATED BACK BOXES, FLOOR BOXES AND CONDUIT. ALL CONDUIT AND BOXES BY DIV.26.
5. REFER AND COORDINATE WITH SECURITY ELECTRONICS DRAWINGS AND NOTES AND PROVIDE ALL CONDUIT FOR THIS SYSTEM. COORDINATE WITH SECURITY ELECTRONICS CONTRACTOR.
6. CONDUIT SHALL BE 7" MINIMUM ABOVE FLOOR. CONDUIT ON WALK AREA IS NOT ALLOWED.

2 TYPICAL BI-FOLD DOOR CONTROL

1/4" = 1'-0"

1 LOWER LEVEL WEST FLOOR PLAN - POWER

1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect: Brinkley Sargent Wiginton Architect (972) 960-9970
Civil: Pacheco koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED PROFESSIONAL ENGINEER

LOWER LEVEL WEST FLOOR PLAN - POWER

21913
7/13/2021
E302

FOR BID

GENERAL NOTES:

1. NUMBER ASSOCIATED WITH CERTAIN RECEPTACLES (I.E. R2-17) REFERS TO CONTROL RELAY NUMBER. REFER TO RELAY SCHEDULE.
2. RECEPTACLES IN ALL DETENTION AREAS:
   A. HAVE DETENTION GRADE STAINLESS STEEL COVER PLATES.
   B. COVER PLATES SHALL HAVE TORX PLATES FASTNER.
   C. BE TAMPER PROOF.
   D. BE ON GFCI BREAKER.
3. REFER TO SECURITY ELECTRONIC DRAWINGS FOR ALL CIRCUITS LOCATED IN PANEL SE.
4. CONDUIT SHALL BE 7" MINIMUM ABOVE FLOOR. CONDUIT ON WALK AREA IS NOT ALLOWED. CONDUIT RUNS ON THE WALK AREAS IS NOT ALLOWED.
5. REFER AND COORDINATE WITH I.T. DRAWINGS AND NOTES FOR LOCATIONS OF DATA, INMATE PHONE, KIOSK AND VIDEO VISITATION RELATED BACK BOXES, FLOOR BOXES AND CONDUIT. ALL CONDUIT AND BOXES BY DIV.26.
6. REFER AND COORDINATE WITH SECURITY ELECTRONICS DRAWINGS AND NOTES AND PROVIDE ALL CONDUIT FOR THIS SYSTEM. COORDINATE WITH SECURITY ELECTRONICS CONTRACTOR.

NOTES BY SYMBOL "◯":

A. 1 PROVIDE VERTICAL OUTLET STRIP NEXT TO SHELF/MILLWORK ON STRIP SHALL BE FROM 7" A.F.F. TO 77" A.F.F., CONNECT STRIP TO GFCI OUTLET.

2 ALL CONDUIT IN MECH 2014 SPACE SHALL BE AT LEAST 7" ABOVE FLOOR LEVEL. CONDUIT RUNS ON THE WALK AREAS ARE NOT ACCEPTABLE.

3 POWER FOR AUTO FLUSH VALVE.

4 POWER FOR VIDEO VISITATION SYSTEM. COORDINATE EXACT LOCAATION WITH VENDOR.

5 SELECTIVE CHASES HAVE RECEPTACLES. PROVIDE GFCI RECEPTACLES OR GFCI BREAKER.

6 POWER FOR EMS CONTROL CABINETS. REFER TO MECHANICAL DRAWINGS.

7 POWER FOR ASPIRATED SMOKE DETECTION SYSTEM. COORDINATE WITH FIRE PROTECTION CONTRACTOR.

8 INSTALL RECEPTACLE ON COLUMN, SURFACE MOUNTED RECEPTACLE AND CONDUIT.

⚠1 9 POWER FOR FIRE ALARM PANEL BREAKER SHALL BE RED IN COLOR. INSTALL AND PROVIDE LABELS PER NEC ARTICLE 760.

1 LEVEL 1 EAST FLOOR PLAN - POWER
1/8" = 1'-0"

GRAPHIC SCALE 1/8"=1'-0" (0, 2', 4', 8', 16')

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architect (972) 960-9970
Civil: Pacheco koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS — JOHN VINCENT — 108939 — LICENSED PROFESSIONAL ENGINEER

LEVEL1 EAST FLOOR PLAN - POWER

FOR BID

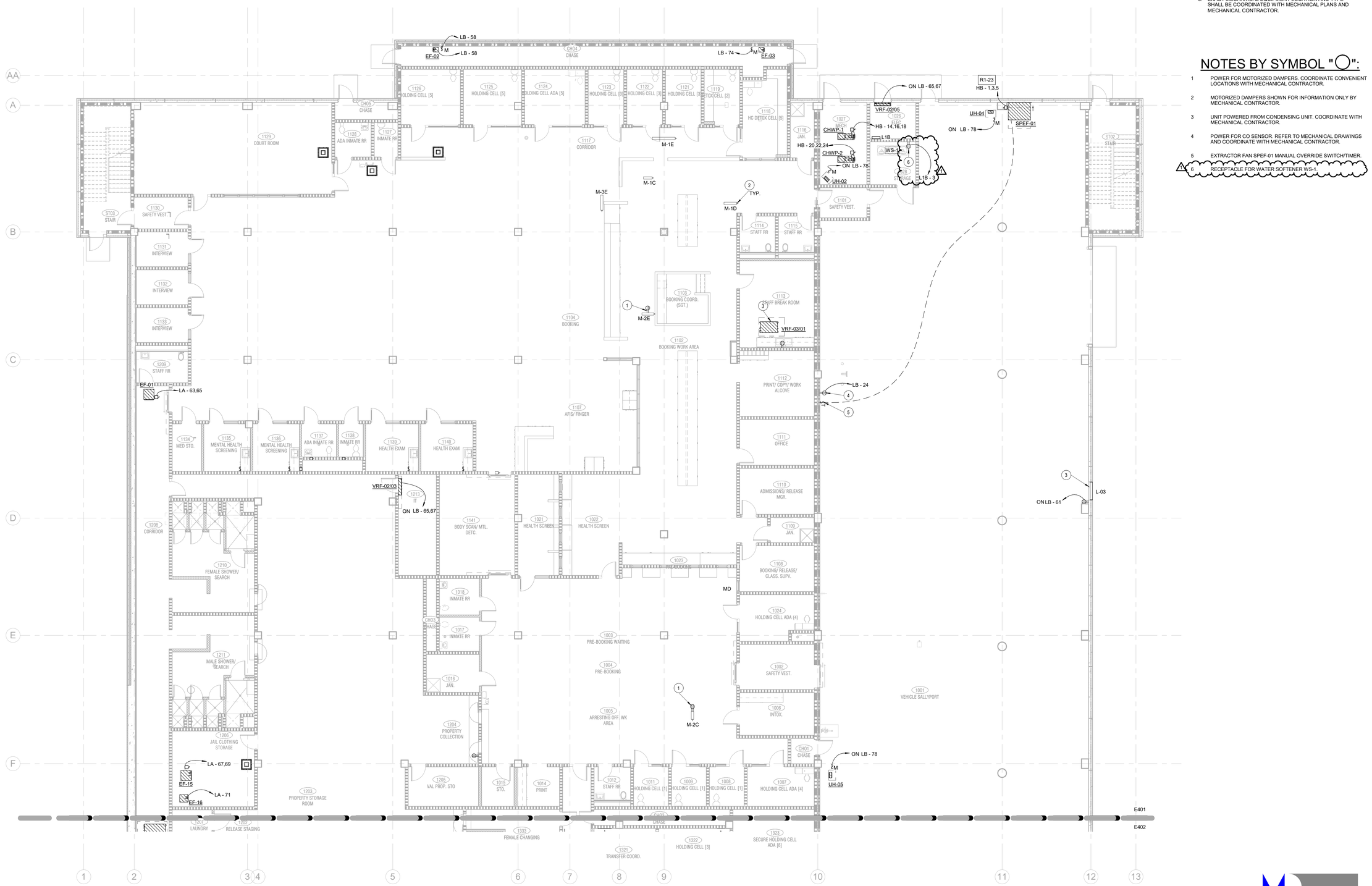
21913
7/13/2021
E311

GENERAL NOTES:

1. REFER TO THE "POWER TO MECHANICAL" SCHEDULE FOR BRANCH CIRCUIT REQUIREMENTS OF MECHANICAL EQUIPMENT. VERIFY VOLTAGE, PHASE, MCA AND MOCP OF EQUIPMENT SUBMITTALS WITH THIS SCHEDULE.
2. COORDINATE THE PROVISION OF DISCONNECT SWITCHES AND MOTOR STARTERS WITH MECHANICAL CONTRACTOR.
3. WHERE EQUIPMENT IS SCHEDULED BUT NOT SHOWN ON THESE DRAWINGS, REFER TO THE MECHANICAL FOR LOCATION.
4. COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION TRADES AND IDENTIFY ALL MISCELLANEOUS MECHNANICAL EQUIPMENT REQUIRING POWER. PROVIDE CONDUIT, WIRE, DISCONNECT SWITCH, OVER CURRENT AND SHORT CIRCUIT PROTECTION FOR ALL EQUIPMENT, WHETHER SHOWN OR NOT.
5. EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE SHALL BE COORDINATED WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.

NOTES BY SYMBOL "◯":

1. POWER FOR MOTORIZED DAMPERS. COORDINATE CONVENIENT LOCATIONS WITH MECHANICAL CONTRACTOR.
2. MOTORIZED DAMPERS SHOWN FOR INFORMATION ONLY BY MECHANICAL CONTRACTOR.
3. UNIT POWERED FROM CONDENSING UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
4. POWER FOR CO SENSOR. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR.
5. EXTRACTOR FAN SPEF-01 MANUAL OVERRIDE SWITCH/TIMER.
6. RECEPTACLE FOR WATER SOFTENER WS-1.



1 LOWER LEVEL EAST FLOOR PLAN - POWER TO MECHANICAL

1/8" = 1'-0"

GRAPHIC SCALE 1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architect(972) 960-9970
Civil: Pacheco koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

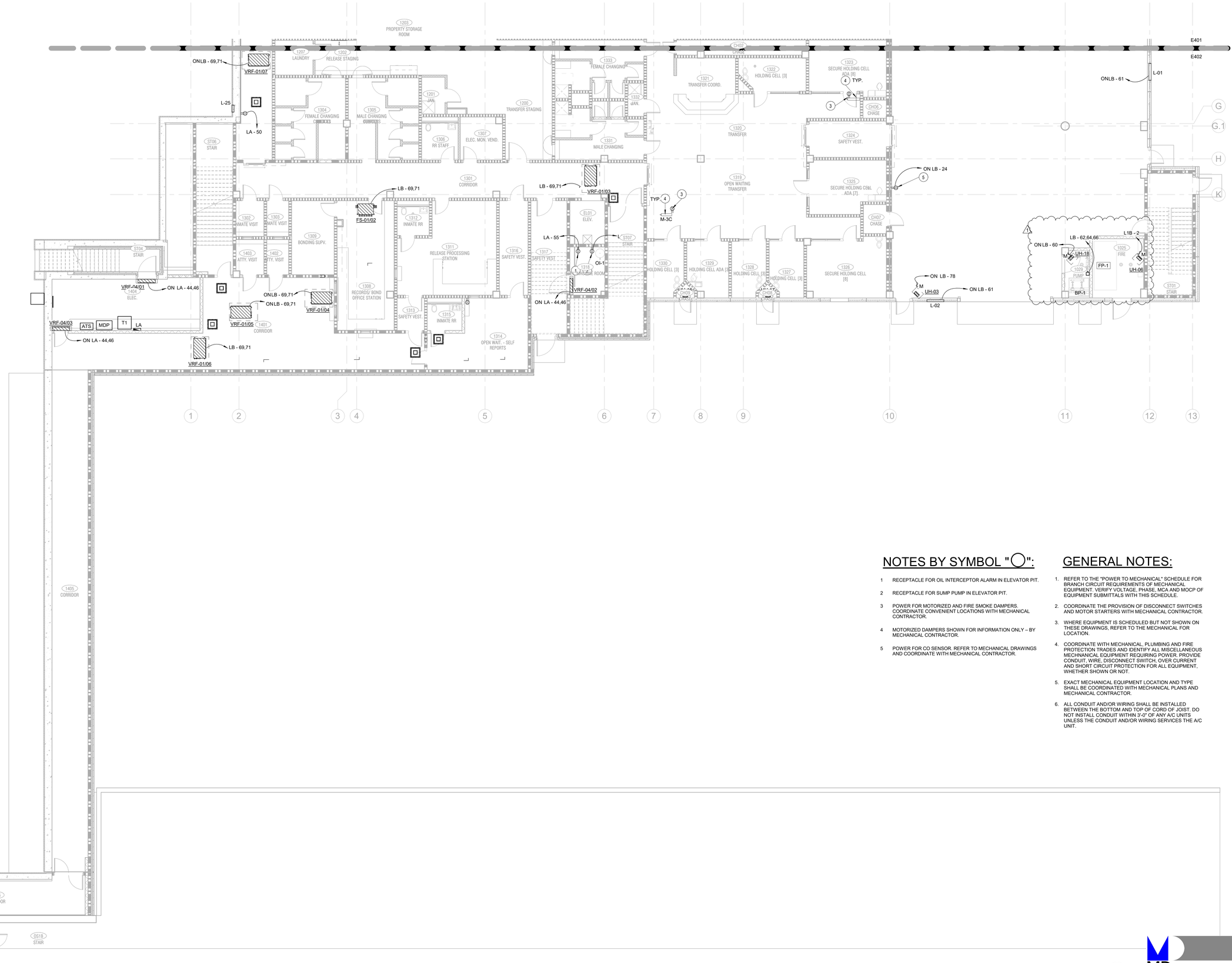
HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED
PROFESSIONAL ENGINEER
8.9.21

LOWER LEVEL EAST FLOOR PLAN - POWER TO MECHANICAL

21913
7/13/2021
E401

FOR BID



NOTES BY SYMBOL "◯":

1. RECEPTACLE FOR OIL INTERCEPTOR ALARM IN ELEVATOR PIT.
2. RECEPTACLE FOR SUMP PUMP IN ELEVATOR PIT.
3. POWER FOR MOTORIZED AND FIRE SMOKE DAMPERS. COORDINATE CONVENIENT LOCATIONS WITH MECHANICAL CONTRACTOR.
4. MOTORIZED DAMPERS SHOWN FOR INFORMATION ONLY – BY MECHANICAL CONTRACTOR.
5. POWER FOR CO SENSOR. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR.

GENERAL NOTES:

1. REFER TO THE "POWER TO MECHANICAL" SCHEDULE FOR BRANCH CIRCUIT REQUIREMENTS OF MECHANICAL EQUIPMENT. VERIFY VOLTAGE, PHASE, MCA AND MOCP OF EQUIPMENT SUBMITTALS WITH THIS SCHEDULE.
2. COORDINATE THE PROVISION OF DISCONNECT SWITCHES AND MOTOR STARTERS WITH MECHANICAL CONTRACTOR.
3. WHERE EQUIPMENT IS SCHEDULED BUT NOT SHOWN ON THESE DRAWINGS, REFER TO THE MECHANICAL FOR LOCATION.
4. COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION TRADES AND IDENTIFY ALL MISCELLANEOUS MECHNANICAL EQUIPMENT REQUIRING POWER. PROVIDE CONDUIT, WIRE, DISCONNECT SWITCH, OVER CURRENT AND SHORT CIRCUIT PROTECTION FOR ALL EQUIPMENT, WHETHER SHOWN OR NOT.
5. EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE SHALL BE COORDINATED WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
6. ALL CONDUIT AND/OR WIRING SHALL BE INSTALLED BETWEEN THE BOTTOM AND TOP OF CORD OF JOIST. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY A/C UNITS UNLESS THE CONDUIT AND/OR WIRING SERVICES THE A/C UNIT.

1 LOWER LEVEL WEST FLOOR PLAN - POWER TO MECHANICAL
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7459
1255 W.est 15th Street, Suite 300 - Plano, TX. 75075
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Architect: Brinkley Sargent Wginton Architect(972) 960-9970
Civil: Pacheco koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineers (469) 467-0200
Security: LattaTech (972) 633-3850
BRINKLEY SARGENT WIGINTONARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
JOHN VINCENT
108939
LICENSED
PROFESSIONAL ENGINEER
7-13-21

LOWER LEVEL WEST FLOOR PLAN - POWER TO MECHANICAL

21913
7/13/2021
E402

FOR BID

FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

NOTES BY SYMBOL "◯":

1 FIRE PROTECTION STAND PIPE WITH FIRE HOSE CONNECTION.

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

2 PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13, LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.

3 THE FIRE SPRINKLER PIPING SHOWN IS INTENDED TO INDICATE THE LOCATION OF MAIN SUPPLY PIPING AND STANDPIPES, AS WELL AS THE AREAS INTENDED FOR FIRE SPRINKLERS. THE INCLUSION OF THIS AREA INTENDED FOR FIRE SPRINKLERS. THE INCLUSION OF THIS INFORMATION SHALL IN NO WAY DIMINISH THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY DESIGNED, SIZED AND INSTALLED FIRE SPRINKLER SYSTEM, AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE LAWS OF THE STATE OF TEXAS.

4 FIRE SPRINKLER SHOP DRAWINGS SHALL BE COORDINATED WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO SUBMISSION TO FIRE MARSHALL.

5 THE OWNER AND FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONNECTIONS TO THE EXISTING FIRE SYSTEM.

6 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

7 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA

1 LOWER LEVEL EAST FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
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MEP / IT: MD Engineering (469) 467-0200
Security: LaftaTech (972) 633-5850

BRINKLEY SARGENT WIGINTON ARCHITECTS

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

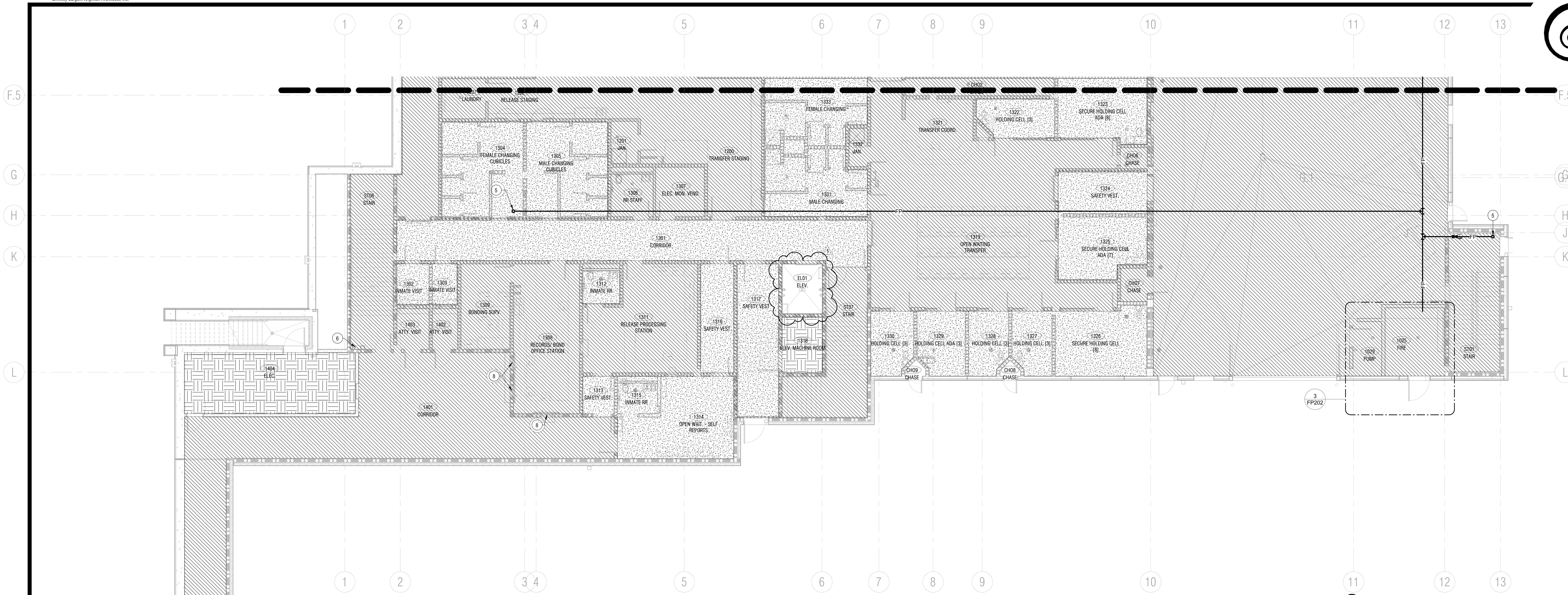
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

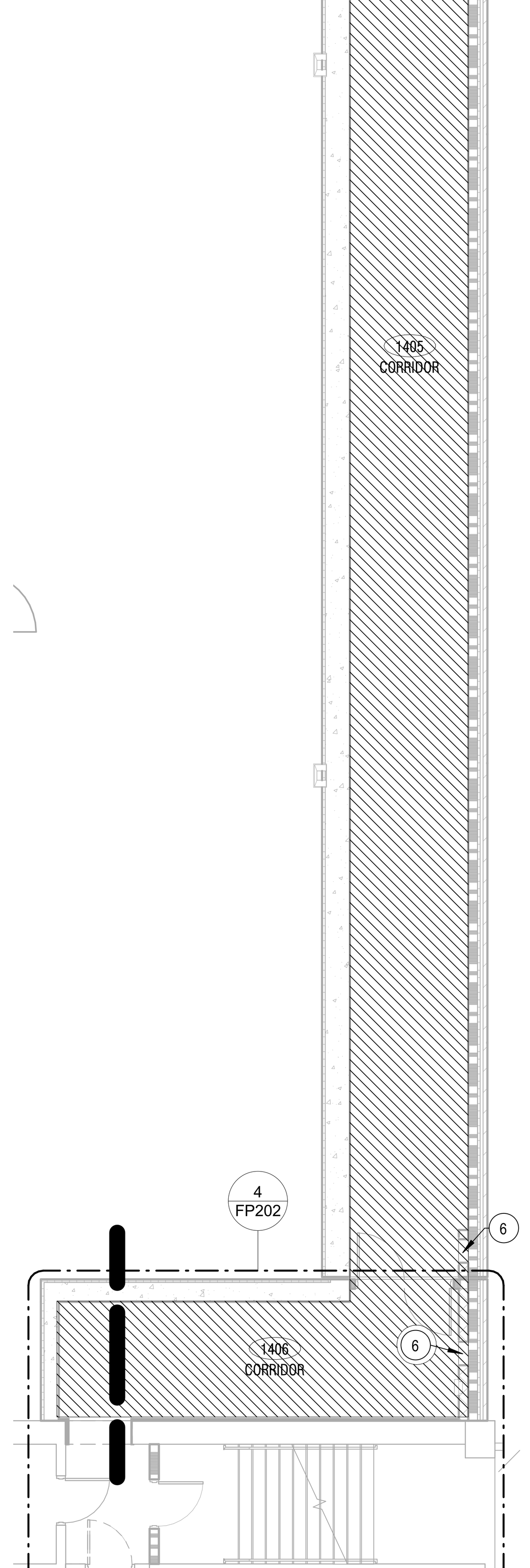
LOWER LEVEL EAST FLOOR PLAN - FIRE PROTECTION

FOR BID

21913
07/13/2021
FP201

Brinkley Sargent Wiginton Architects, Inc.



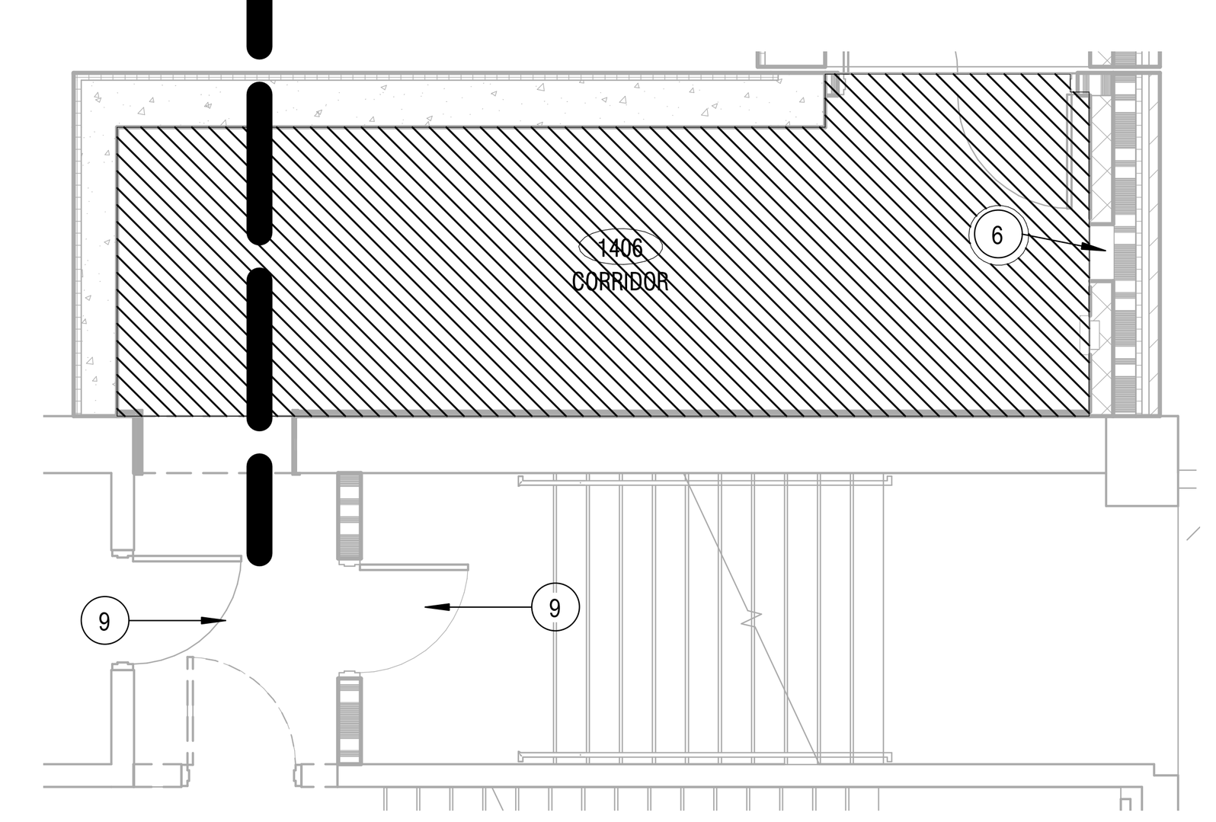


1 LOWER LEVEL WEST FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

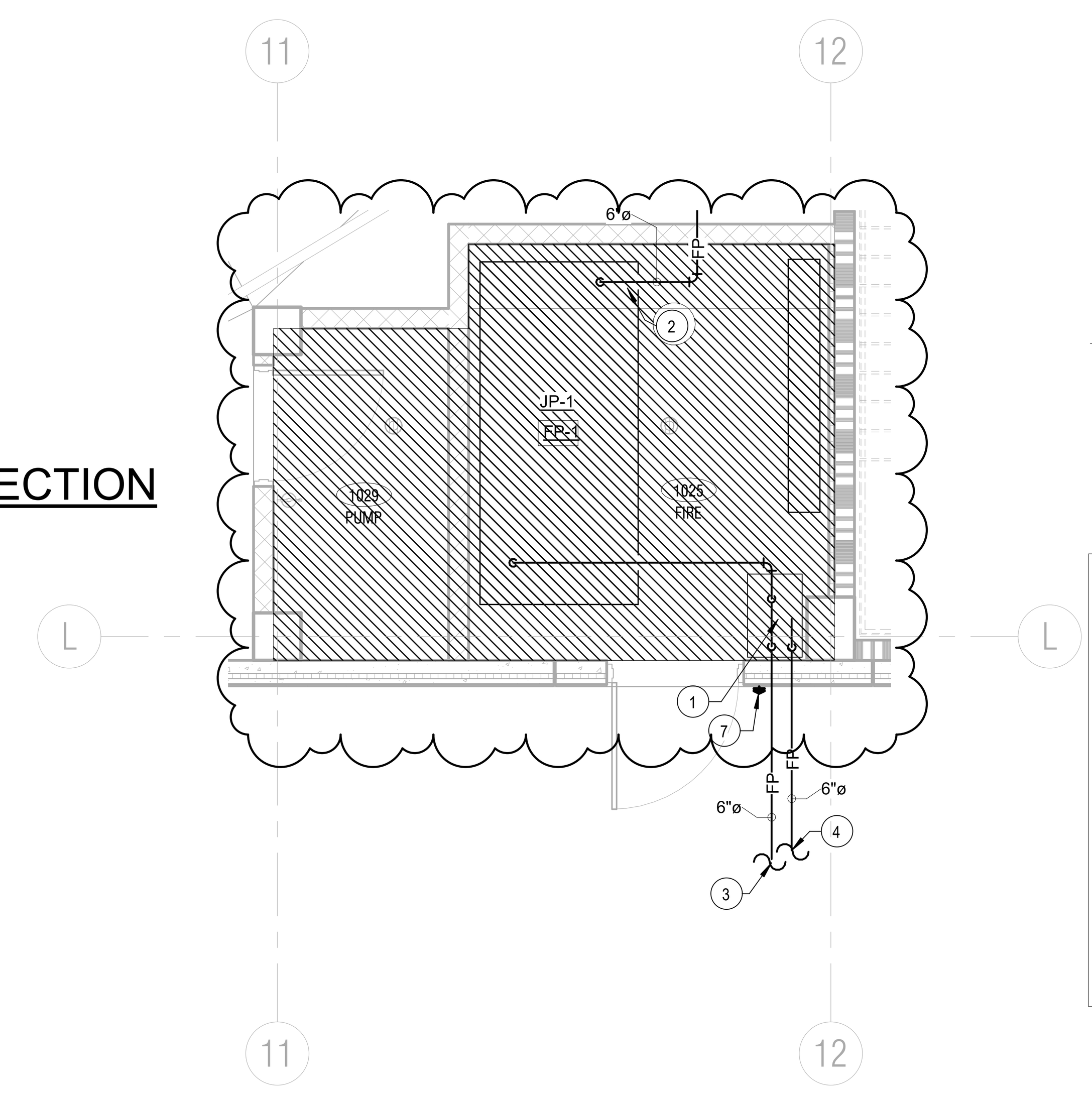
FIRE PROTECTION PUMP SCHEDULE

DESIG.	TYPE	SERVES	GPM	HEAD FT	HP	V/PH	RPM	MFG	MODEL NUMBER	NOTES
FP-1	FIRE PUMP	FIRE SUPRESSION SYSTERM	1000	50	50	480/3	1770	TIGERFLOW	FP-1000-HSC	1, 2, 3
JP-1	JOCKEY PUMP	FIRE SUPRESSION SYSTERM	12.5	50	1	480/3	1775	TIGERFLOW	PVM1-8	

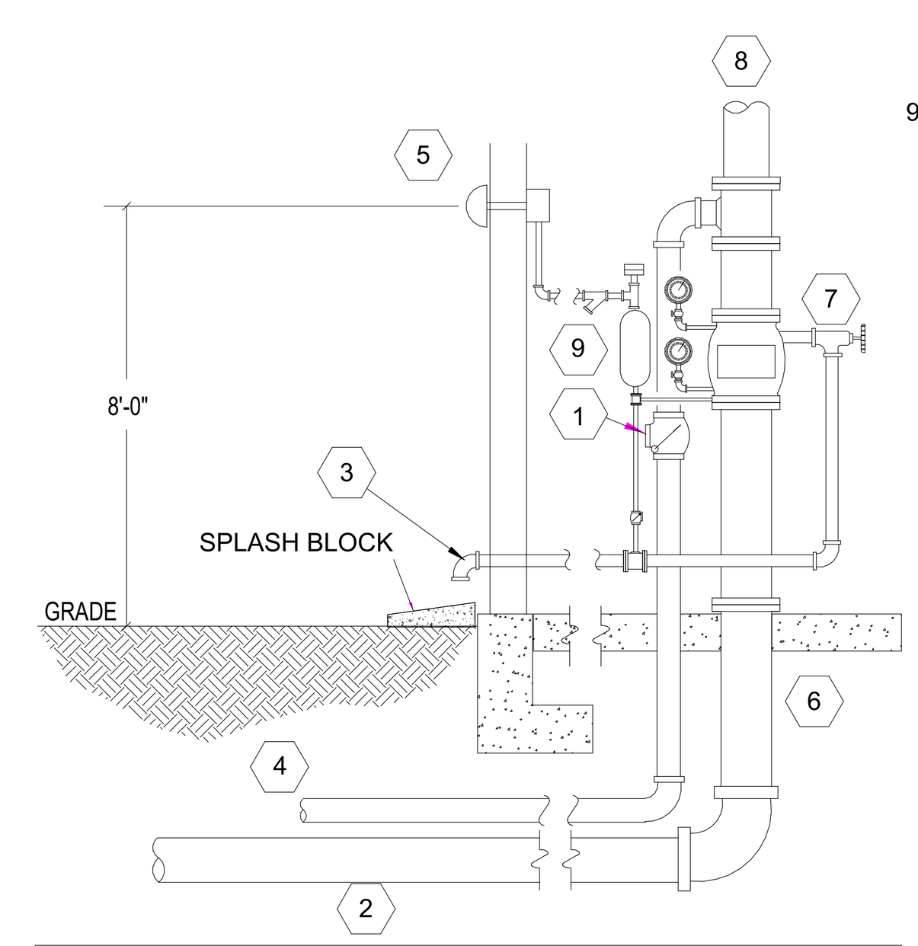
NOTES;
1. FACTORY PRE-ASSEMBLED RIRE PUMP. FOLLOW MANUFACTURERES RECOMMENDATIONS
2. FIRE PUMP ATS TO MEET SPCIFICATION SECTION 26 36 23
3. PUMP SHALL BE CONFIGURED TO BE TOP SUPPLY AND RETURN



4 EXISTING/NEW CORRIDOR CONNECTION - FIRE PROTECTION
3/16" = 1'-0"



3 LOWER LEVEL WEST FLOOR PLAN - ENLARGED FIRE RISER ROOM
1/4" = 1'-0"



ITEM	DESCRIPTION
1	CHECK VALVE
2	UNDERGROUND FIRE MAIN
3	MAIN ALARM VALVE DRAIN
4	TO REMOTE FIRE DEPARTMENT CONNECTION
5	WATER MOTOR GONG
6	EXISTING RISER TO SPRINKLER SYSTEM
7	WET PIPE ALARM VALVE
8	SYSTEM PIPING
9	RETARD CHAMBER

2 FIRE PROTECTION RISER - REMOTE
1/8" = 1'-0"

NOTES BY SYMBOL "○":

1 AUTOMATIC FIRE SPRINKLER VALVE ASSEMBLY. REFER TO DETAIL 02/FP202.

2 SPRINKLER MAIN FROM AUTOMATIC SP VALVE. ROUTE PER CERTIFIED SPRINKLER DESIGNER DRAWINGS.

3 6" FIRE SERVICE. REFER TO CIVIL PLAN FOR CONTINUATION.

4 TO REMOTE FIRE DEPARTMENT CONNECTION. PAINT AS DIRECTED BY ARCHITECT.

5 FIRE PROTECTION STAND PIPE WITH FIRE HOSE CONNECTION.

6 2-1/2" FIRE LINE SERVING FIRE HOSE CABINET. PROVIDE METAL CAP WITH CHAIN ATTACHED TO HOSE CONNECTION.

7 WATER MOTOR GONG SIMILAR TO TYCO MODEL WMA-1. PAINT AS DIRECTED BY ARCHITECT AND REFER TO ARCHITECTURAL FOR MORE INFORMATION.

8 SMOKE CURTAINS. TIE SMOKE CURTAINS INTO FIRE ALARM SYSTEM. FIRE PROTECTION CONTRATOR TO VERIFY LOCATION WITH ARCHITECT.

9 REVISE FIRE PROTECTION SPRINKLER HEADS IN THIS AREA TO MATCH NEW CEILING. REFER TO ARCHITECTS FOR REVISED CEILING

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

2 PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13. LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.

3 THE FIRE SPRINKLER PIPING SHOWN IS INTENDED TO INDICATE THE LOCATION OF MAIN SUPPLY PIPING AND STANDPIPIES, AS WELL AS THE AREAS INTENDED FOR FIRE SPRINKLERS. THE INCLUDSION OF THIS AREA INTENDED FOR FIRE SPRINKLERS. THE INCLUSION OF THIS INFORMATION SHALL IN NO WAY DIMINISH THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY DESIGNED, SIZED AND INSTALLED FIRE SPRINKLER SYSTEM, AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE LAWS OF THE STATE OF TEXAS.

4 FIRE SPRINKLER SHOP DRAWINGS SHALL BE COORDINATED WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO SUBMISSION TO FIRE MARSHALL.

5 THE OWNER AND FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONNECTIONS TO THE EXISTING FIRE SYSTEM.

6 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

7 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

ELEVATOR MACHINE ROOM SIGNAGE

AUTOMATIC SPRINKLERS SHALL NOT BE INSTALLED IN ELEVATOR MACHINE ROOMS, ELEVATOR MACHINE SPACES, AND ELEVATOR HOIST WAYS, OTHER THAN PITS WHERE SUCH SPRINKLERS WOULD NOT NECESSITATE SHUNT TRIP REQUIREMENTS UNDER ANY CIRCUMSTANCES. STORAGE SHALL NOT BE ALLOWED WITH-IN THE ELEVATOR MACHINE ROOM.

LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA

FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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Civil: Pacheco Koch (214) 451-2765
Strucrural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST FLOOR PLAN - FIRE PROTECTION

21913
07/13/2021
FP202

FOR BID

FIRE PROTECTION STANDARD COMMENTS

4

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

NOTES BY SYMBOL "◯":

1 TWO STORY SPACE WITH METAL GRATING AND FIRE PROTECTION WILL BE REQUIRED ON BOTH LEVELS. FIRE SPRINKLER DESIGNER SHALL COORDINATE HEAD LOCATIONS WITH MECHANICAL EQUIPMENT AND MAINTENANCE CLEARANCES OF EQUIPMENT.

2 FIRE PROTECTION STAND PIPE WITH FIRE HOSE CONNECTION.

3 2-1/2" FIRE LINE SERVING FIRE HOSE CABINET. PROVIDE METAL CAP WITH CHAIN ATTACHED TO HOSE CONNECTION.

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

2 PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13. LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.

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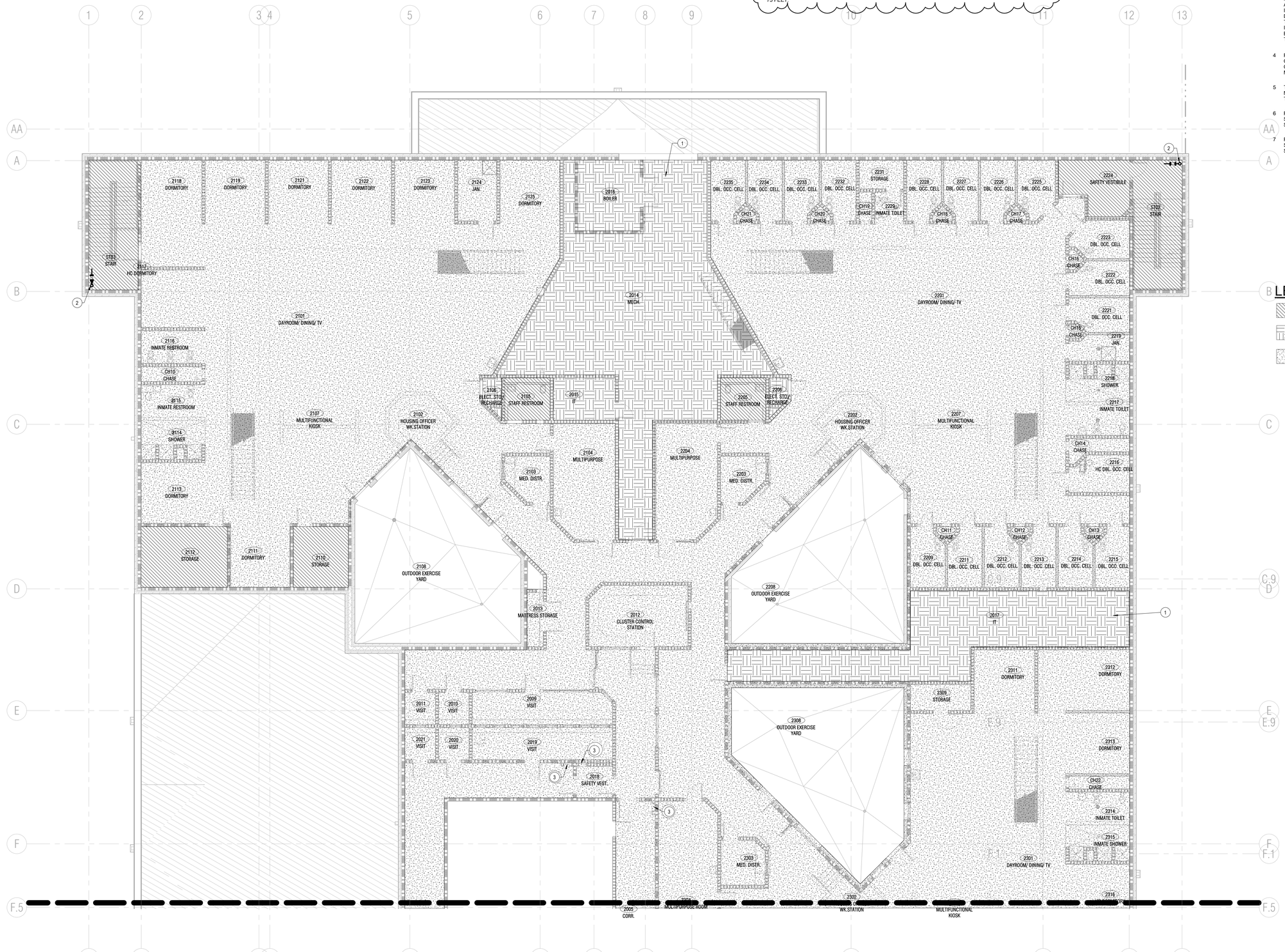
4 FIRE SPRINKLER SHOP DRAWINGS SHALL BE COORDINATED WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO SUBMISSION TO FIRE MARSHALL.

5 THE OWNER AND FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONNECTIONS TO THE EXISTING FIRE SYSTEM.

6 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

7 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.



LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA

1 LEVEL 1 EAST FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

GRAPHIC SCALE 1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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Email: mdengca@md-eng.com Project No.: 201254

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Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaftaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

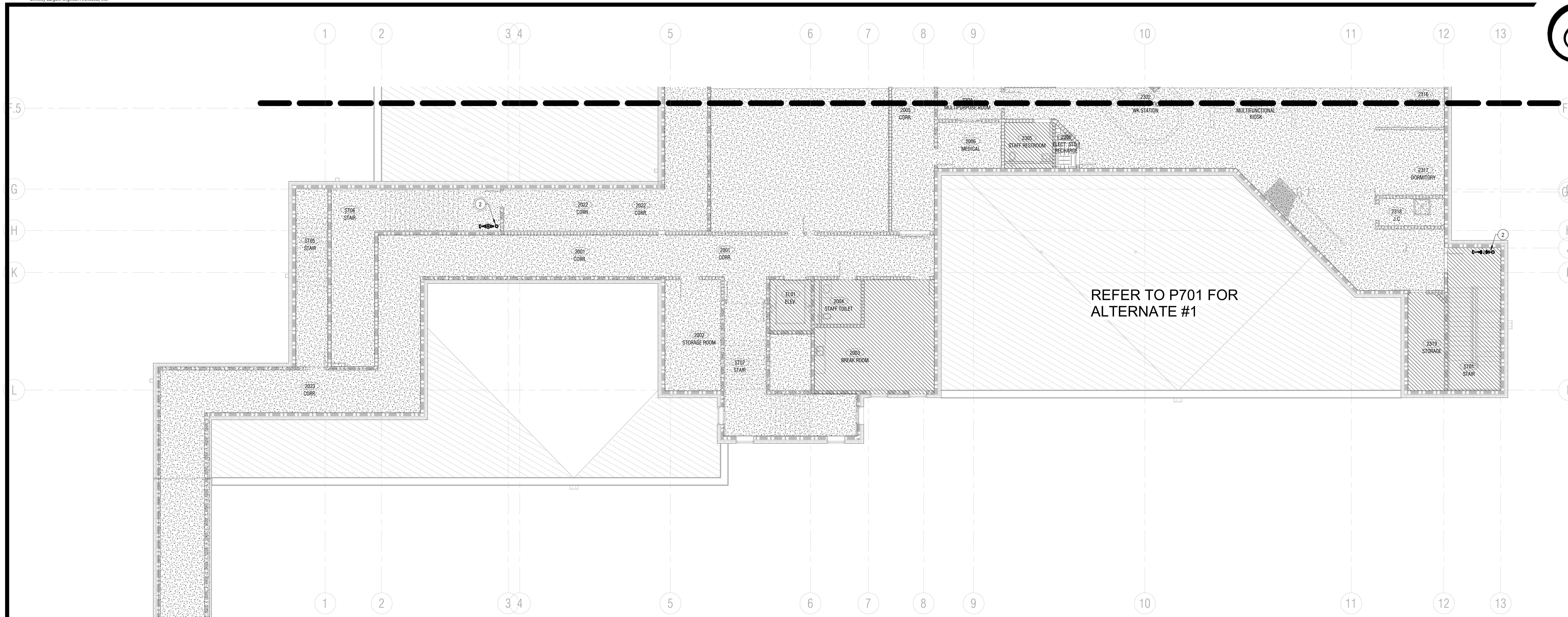
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

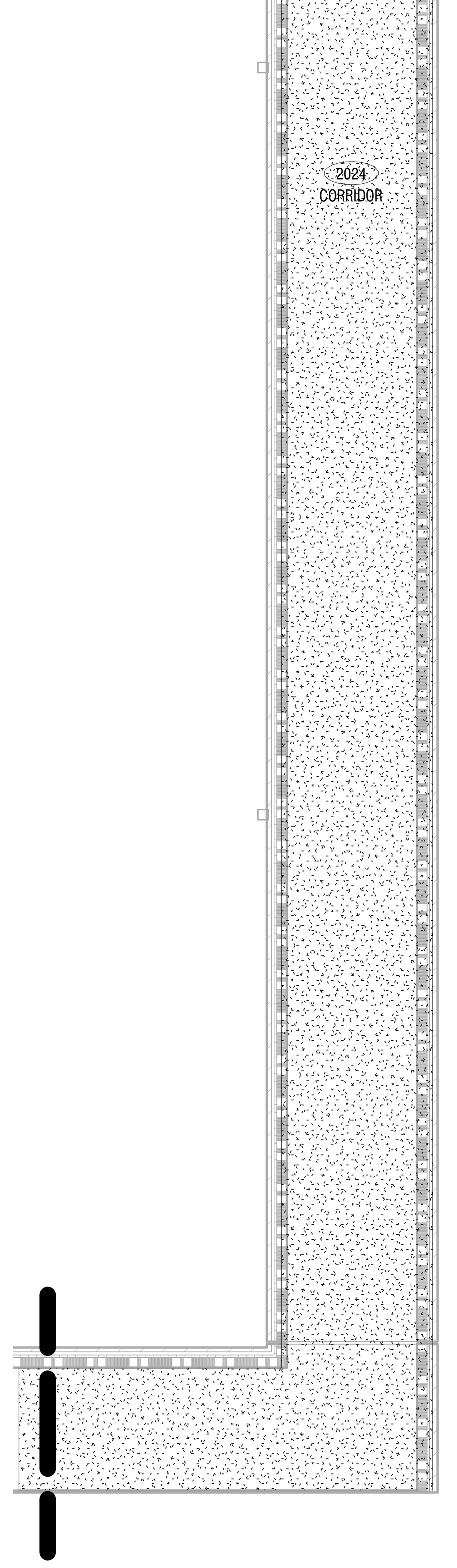
LEVEL1 EAST FLOOR PLAN - FIRE PROTECTION

21913
07/13/2021

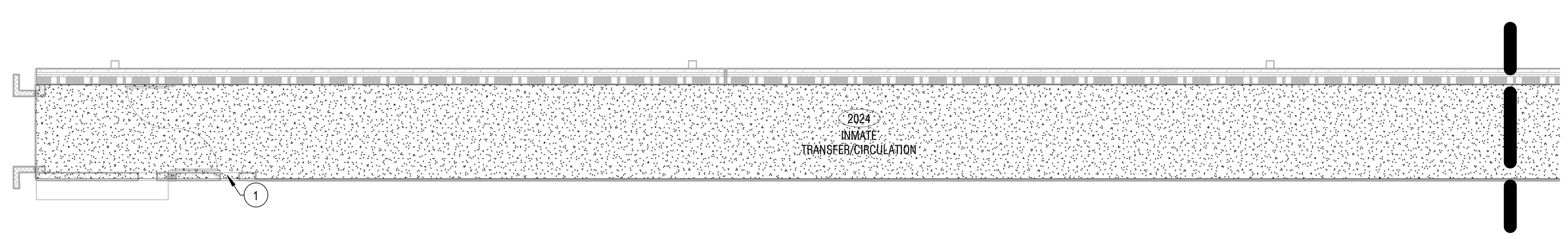
FP203

FOR BID





1 LEVEL 1 WEST FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"



2 LEVEL 1 WEST FLOOR PLAN - FIRE PROTECTION - CONTINUE CORRIDOR
1/8" = 1'-0"

NOTE FOR ALT #1:

FOR ALT #1 FIRE PROTECTION PLEASE REFER TO 2/P701

NOTES BY SYMBOL "○":

1 2-1/2" FIRE LINE SERVING FIRE HOSE CABINET. PROVIDE METAL CAP WITH CHAIN ATTACHED TO HOSE CONNECTION.

2 FIRE PROTECTION STAND PIPE WITH FIRE HOSE CONNECTION.

LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA

ELEVATOR MACHINE ROOM SIGNAGE

AUTOMATIC SPRINKLERS SHALL NOT BE INSTALLED IN ELEVATOR MACHINE ROOMS, ELEVATOR MACHINE SPACES, AND ELEVATOR HOIST WAYS, OTHER THAN PITS WHERE SUCH SPRINKLERS WOULD NOT NECESSITATE SHUNT TRIP REQUIREMENTS UNDER ANY CIRCUMSTANCES. STORAGE SHALL NOT BE ALLOWED WITH-IN THE ELEVATOR MACHINE ROOM.

FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

2 PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13. LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.

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7 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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1255 West 15th Street, Suite 300 - Plano, TX 75075
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Strucural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

BRINKLEY SARGENT WIGINTONARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

LEVEL1 WEST FLOOR PLAN - FIRE PROTECTION

21913
07/13/2021

FP204

FOR BID

FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

NOTES BY SYMBOL "◯":

1 TWO STORY SPACE WITH METAL GRATING AND FIRE PROTECTION WILL BE REQUIRED ON BOTH LEVELS. FIRE SPRINKLER DESIGNER SHALL COORDINATE HEAD LOCATIONS WITH MECHANICAL EQUIPMENT AND MAINTENANCE CLEARANCES OF EQUIPMENT.

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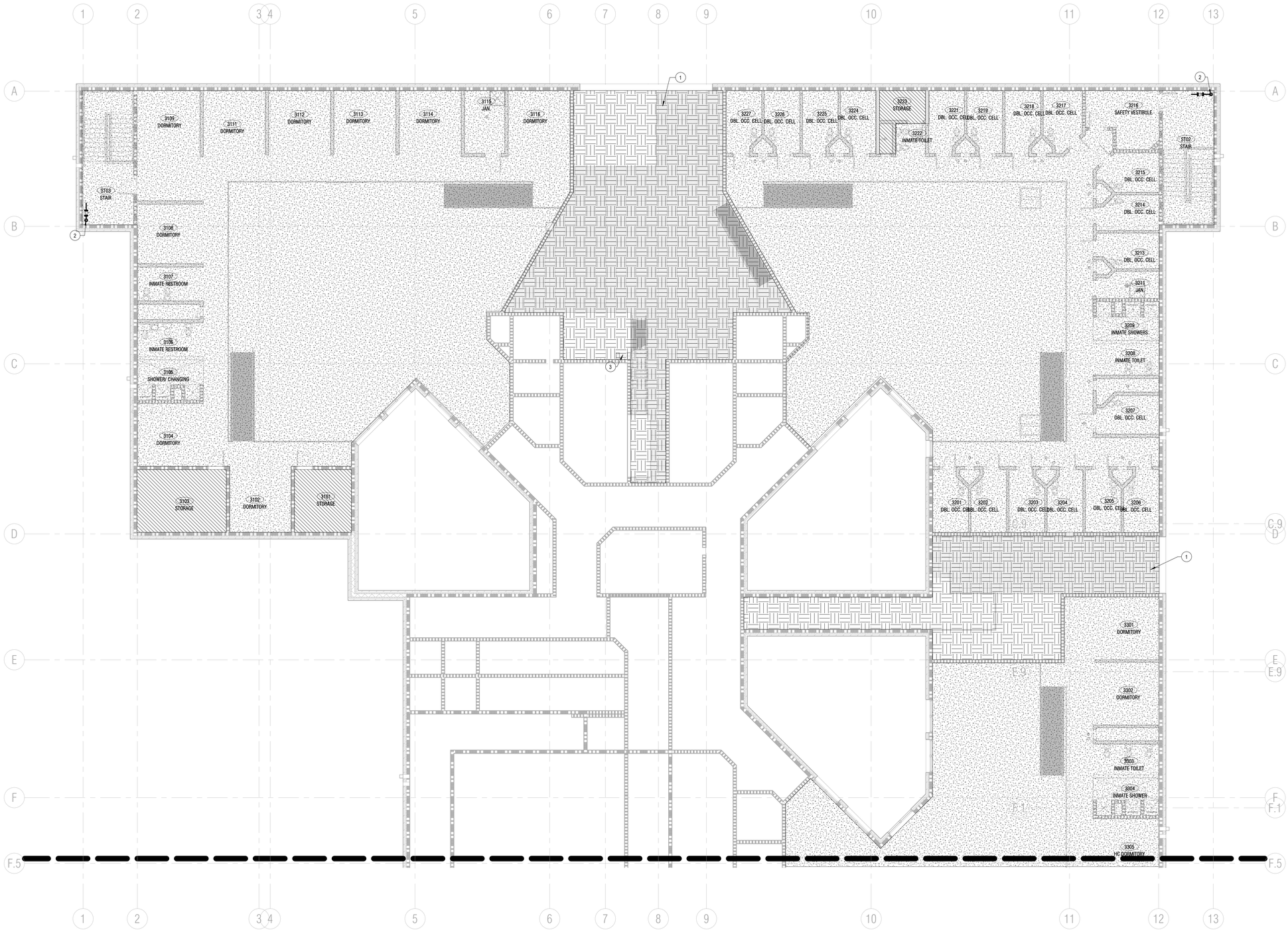
LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA



1 TIER LEVEL EAST FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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Email: mdengus@md-eng.com Project No.: 201254

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Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LoftaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

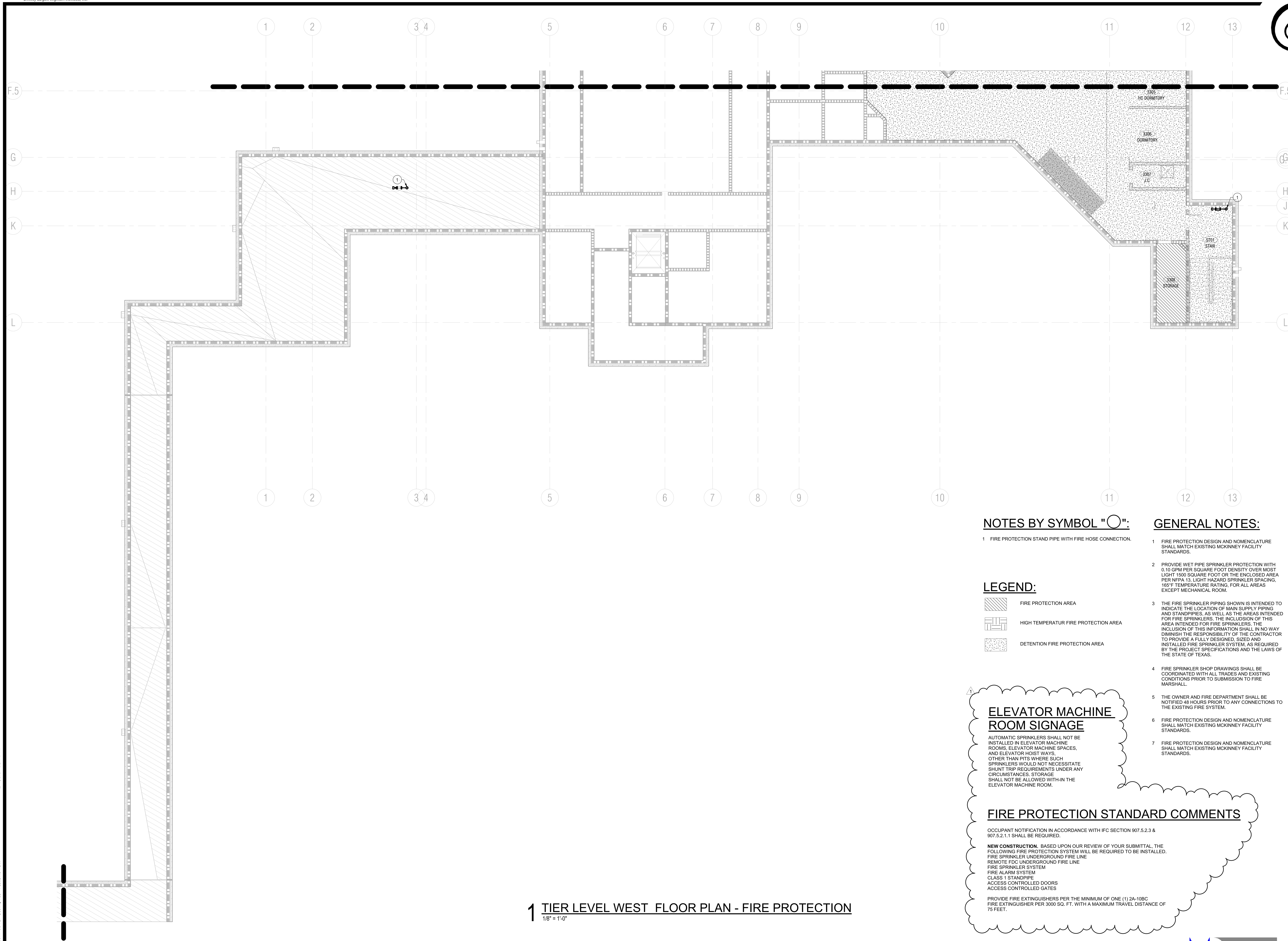
HISTORY		
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/16/21

TIER LEVEL EAST FLOOR PLAN - FIRE PROTECTION

FOR BID

21913
07/13/2021
FP205



1 TIER LEVEL WEST FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0"

NOTES BY SYMBOL "◯":

1 FIRE PROTECTION STAND PIPE WITH FIRE HOSE CONNECTION.

LEGEND:

- FIRE PROTECTION AREA
- HIGH TEMPERATUR FIRE PROTECTION AREA
- DETENTION FIRE PROTECTION AREA

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

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1

ELEVATOR MACHINE ROOM SIGNAGE

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FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

NEW CONSTRUCTION. BASED UPON OUR REVIEW OF YOUR SUBMITTAL, THE FOLLOWING FIRE PROTECTION SYSTEM WILL BE REQUIRED TO BE INSTALLED.
FIRE SPRINKLER UNDERGROUND FIRE LINE
REMOTE FDC UNDERGROUND FIRE LINE
FIRE SPRINKLER SYSTEM
FIRE ALARM SYSTEM
CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

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BRINKLEY SARGENT WIGINTONARCHITECTS

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Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

TIER LEVEL WEST FLOOR PLAN - FIRE PROTECTION

21913
07/13/2021
FP206

FOR BID

FIRE PROTECTION STANDARD COMMENTS

OCCUPANT NOTIFICATION IN ACCORDANCE WITH IFC SECTION 907.5.2.3 & 907.5.2.1.1 SHALL BE REQUIRED.

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REMOTE FDC UNDERGROUND FIRE LINE
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CLASS 1 STANDPIPE
ACCESS CONTROLLED DOORS
ACCESS CONTROLLED GATES

1 PROVIDE FIRE EXTINGUISHERS PER THE MINIMUM OF ONE (1) 2A-10BC FIRE EXTINGUISHER PER 3000 SQ. FT. WITH A MAXIMUM TRAVEL DISTANCE OF 75 FEET.

NOTES BY SYMBOL "○":

1 FIRE HOSE ROOF CONNECTION. REFER TO 2/FP207 FOR MORE INFORMATION.

GENERAL NOTES:

1 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

2 PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13. LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.

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7 FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING MCKINNEY FACILITY STANDARDS.

1 ROOF PLAN EAST - FIRE PORTECTION
1/8" = 1'-0"

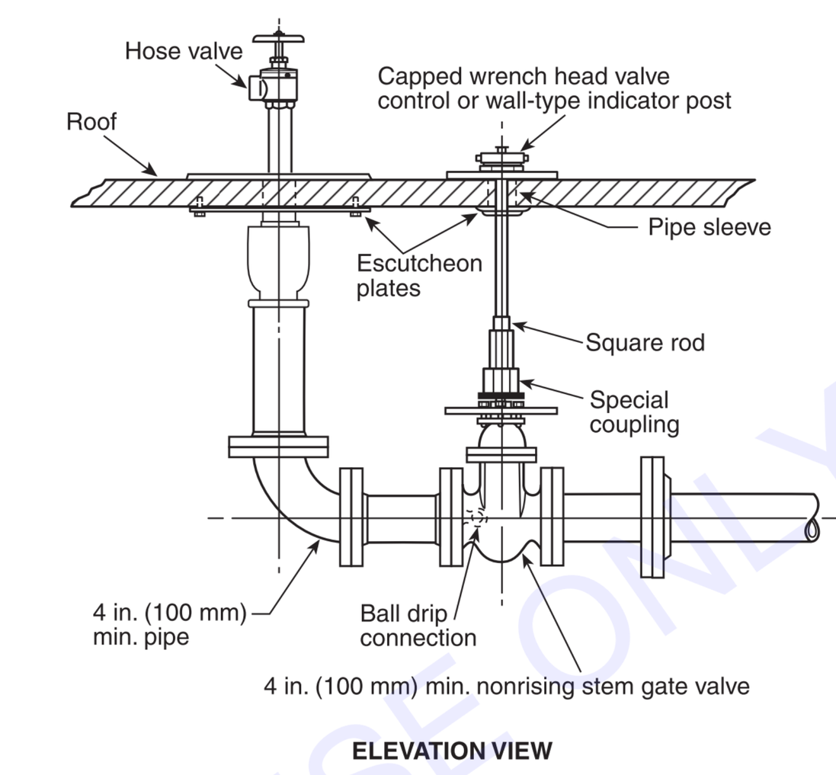

FIGURE A.7.3.2.7 Roof Hose Connection Piping Arrangement.

2 ROOF HOSE CONNECTION
NOT TO SCALE

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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BRINKLEY SARGENT WIGINTONARCHITECTS

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

ROOF PLAN EAST - FIRE PROTECTION

21913
07/13/2021
FP207

FOR BID

ROOF VENTILATOR SCHEDULE

MARK	SERVICES	MAXIMUM CFM	MIN. PERIMETER INTAKE AREA (SQ. FT)	MAX P.D. (W.G.)	MIN. THROAT AREA (SQ. FT)	DUCT SIZE	ELEC	MANUFACTURER	MODEL NO.	OP. WEIGHT (>200 LBS.)	REMARKS
VH-A	RELIEF	200	--	0.05	0.37	8"	-	GREENHECK	GRSR	--	SEE NOTES 1 - 4
VH-B	INTAKE	450	--	0.05	0.82	12"	Y	GREENHECK	GRSI	--	SEE NOTES 1, 3 - 5

NOTES;

1. PROVIDE BIRD SCREEN
2. PROVIDE COUNTERED WEIGHTED BACKDRAFT DAMPER WITH FELTED BLADE STRIKES.
3. PROVIDE MANUFACTURERS ROOF CURB - 12" HIGH ABOVE FINISHED ROOF. NO CURB SLOPE- MOUNT PARALLEL TO ROOF ANGLE.
4. MULTIPLE UNITS HAVE THE SAME DESIGNATION. VERIFY EXACT NUMBER OF UNITS WITH THE FLOOR PLANS. ALL MARKS MAY NOT BE UTILIZED.
5. OUTSIDE AIR APPLICATIONS SHALL HAVE 2 POSITION ACTUATORS (120V/1PH - N.C.) BY HOOD MANUFACTURER. END SW. BY CONTROLS CONTRACTOR.

LOUVER SCHEDULE

DESIG.	TYPE	LOCATION	CFM	THROAT WIDTH (IN)	THROAT HEIGHT (IN)	THROAT FREE AREA (SF)	MAX VELOCITY (FPM)	AIR PD (IN.W.G.)	ELEC	FINISH	MFG.	MODEL NUMBER	REMARKS
L-1	COMBINATION DRAINABLE	SALLY PORT	6,440	46	64	8.38	768	0.07	Y	PER ARCH	GREENHECK	EACC-601	SEE NOTES 1-4, 7
L-2	COMBINATION DRAINABLE	SALLY PORT	6,440	46	64	8.38	768	0.07	Y	PER ARCH	GREENHECK	EACC-601	SEE NOTES 1-4, 7
L-3	COMBINATION DRAINABLE	SALLY PORT	6,440	46	64	8.38	768	0.07	Y	PER ARCH	GREENHECK	EACC-601	SEE NOTES 1-4, 7
L-4	FIXED BLADE DRAINABLE	TIER LEVEL - SOUTH WALL	29,070	66	136	35.29	915	0.14	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-5	FIXED BLADE DRAINABLE	TIER LEVEL - SOUTH WALL	6,460	66	40	9.65	670	0.07	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-6	FIXED BLADE DRAINABLE - INACTIVE	TIER LEVEL - SOUTH WALL	-	66	96	24.54	-	-	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 5
L-7	FIXED BLADE DRAINABLE	LEVEL 1 - EAST WALL	19,855	72	96	26.91	738	0.09	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-8	FIXED BLADE DRAINABLE - INACTIVE	LEVEL 1 - EAST WALL	-	72	96	26.91	-	-	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 5
L-9	FIXED BLADE DRAINABLE	LEVEL 1 - EAST WALL	-	60	96	22.16	-	-	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-10	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	3,395	60	80	4.30	790	0.10	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 6
L-11	FIXED BLADE DRAINABLE - INACTIVE	TIER LEVEL - EAST WALL	-	72	80	22.38	-	-	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 5, 8
L-12	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	3,395	60	80	4.30	790	0.10	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 6, 8
L-13	FIXED BLADE DRAINABLE - INACTIVE	TIER LEVEL - EAST WALL	-	60	80	18.43	-	-	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 5
L-14	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	3,395	60	80	4.30	790	0.10	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 6
L-15	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	17,210	60	80	18.43	934	0.15	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-16	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	17,210	72	80	22.38	769	0.10	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 8
L-17	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	17,210	60	80	18.43	934	0.15	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 8
L-18	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	17,210	60	80	18.43	934	0.15	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-19	FIXED BLADE DRAINABLE	TIER LEVEL - EAST WALL	17,210	60	80	18.43	934	0.15	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3
L-20	FIXED BLADE DRAINABLE	LOWER LEVEL - EAST WALL	100	12	16	0.47	215	0.01	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 7
L-21	FIXED BLADE DRAINABLE	LOWER LEVEL - NORTH WALL	3,680	34	32	3.65	1,009	0.16	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 7
L-22	FIXED BLADE DRAINABLE	LOWER LEVEL - EAST WALL	100	12	16	0.47	215	0.01	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 7
L-23	FIXED BLADE DRAINABLE	LOWER LEVEL - EAST WALL	400	12	16	0.47	859	0.12	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 7
L-24	FIXED BLADE DRAINABLE	SALLY PORT	19,310	56	56	0.59	1,459	0.29	-	PER ARCH	GREENHECK	ESD-601	SEE NOTES 1-3, 7
L-25	COMBINATION DRAINABLE	LOWER LEVEL - NORTH WALL	570	20	32	0.94	609	0.05	Y	PER ARCH	GREENHECK	EACC-601	SEE NOTES 1- 4, 7
L-26	FIXED BLADE DRAINABLE	LOWER LEVEL - NORTH WALL	4,710	44	32	4.69	1,005	0.16	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3, 7
L-27	FIXED BLADE DRAINABLE	LEVEL 1 - NORTH WALL	135	12	16	0.47	290	0.01	-	PER ARCH	GREENHECK	EDD-601	SEE NOTES 1-3

NOTES:

1. PROVIDE BIRD SCREEN
2. PROVIDE KYNAR FINISH. COLOR PER ARCHITECTURAL RECOMMENDATIONS.
3. PROVIDE SHEET METAL SLEEVE FOR DUCT CONNECTION.
4. PROVIDE ENCLOSED ACTUATOR (120V/1PH), FRAME AND EXPANDED METAL SAFETY / SECURITY SCREEN.
5. LOUVER SHALL BE HINGED FRENCH DOOR WITH LOCKABLE HASP FOR ACCESS PATH FOR EQUIPMENT MAINTENANCE. PROVIDE INSULATED PANEL ON BACK SIDE OF INACTIVE SECTION. REFER TO DETAILS.
6. PROVIDE 60"X56" INSULATED BLANK OFF PLATE AT BOTTOM OF LOUVER FOR INACTIVE SECTION. SCHEDULED THROAT FREE AREA, VELOCITY, AND AIR PD SHALL BE PERFORMANCE OF ACTIVE LOUVER AREA.
7. PROVIDE SECURITY BARRIER AS DETAILS IN PLANS.
8. PROVIDE AND INSTALL PIECE OF METAL ON LOUVER TO MATCH LOCKABLE HASP FROM LOUVER BELOW.

UNIT HEATER SCHEDULE

MARK	LEVEL	SERVES	CFM	CAPACITY (MBH)	ELEC. HEATING COIL DATA (kW)	HEATING COIL DATA						FAN DATA				MANUFACTURER	MODEL NO.	OP. WEIGHT (>200 LBS.)	REMARKS
						TOTAL MBH	EWT (F)	LWT (F)	AIR TEMP. RISE (F)	GPM	WPD.(FT)	HP	RPM	VOLTS	PHASE				
UH-01	LEVEL 1	MECH. - 2013	340	11.0	-	11.0	180	150.0	28	0.8	0.2	1 / 60	1550	115	1	MODINE	HC 18	-	REFER TO NOTES 1 - 5
UH-02	LOWER LEVEL	MECH. - 1027	340	11.0	-	11.0	180	150.0	28	0.8	0.2	1 / 60	1550	115	1	MODINE	HC 18	-	REFER TO NOTES 1 - 5
UH-03	LOWER LEVEL	VEHICLE SALLYPORT - 1001	730	26.1	-	26.1	180	150.0	32	1.8	0.1	1 / 12	1550	115	1	MODINE	HC 47	-	REFER TO NOTES 1 - 5
UH-04	LOWER LEVEL	VEHICLE SALLYPORT - 1001	730	26.1	-	26.1	180	150.0	32	1.8	0.1	1 / 12	1550	115	1	MODINE	HC 47	-	REFER TO NOTES 1 - 5
UH-05	LOWER LEVEL	VEHICLE SALLYPORT - 1001	730	26.0	-	26.0	180	150.0	32	1.8	0.1	1 / 12	1550	115	1	MODINE	HC 47	-	REFER TO NOTES 1 - 5
UH-06	LOWER LEVEL	FIRE - 1025	340	11.0	-	11.0	180	150.0	28	0.8	0.2	1 / 60	1550	115	1	MODINE	HC 18	-	REFER TO NOTES 1 - 5
UH-07	LEVEL 1	-	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 5
UH-08	LEVEL 1	-	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 5
UH-09	LEVEL 1	BOILER - 2023	1320	68.2	20	-	-	-	-	-	-	1/10	1500	480	3	QMARK	MUH-20	-	REFER TO NOTES 1 - 5
UH-10	LEVEL 1	ALTERNATE 1	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 6
UH-11	LEVEL 1	ALTERNATE 1	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 6
UH-12	LEVEL 1	ALTERNATE 1	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 6
UH-13	LOWER LEVEL	STAIR - ST03	100	16.4	4.8	-	-	-	-	-	-	5.3 W	1550	277	1	QMARK	AWH4507	-	REFER TO NOTES 2, 3, 7, 8, 9
UH-14	LOWER LEVEL	STAIR - ST02	100	16.4	4.8	-	-	-	-	-	-	5.3 W	1550	277	1	QMARK	AWH4507	-	REFER TO NOTES 2, 3, 7, 8, 9
UH-15	LOWER LEVEL	STAIR - ST01	100	16.4	4.8	-	-	-	-	-	-	5.3 W	1550	277	1	QMARK	AWH4507	-	REFER TO NOTES 2, 3, 7, 8, 9
UH-16	LOWER LEVEL	CHASE - CH09	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 5
UH-17	LOWER LEVEL	CHASE - CH08	350	10.2	3	-	-	-	-	-	-	1/100	1600	277	1	QMARK	MUH-03	-	REFER TO NOTES 1 - 5
UH-18	LOWER LEVEL	PUMP - 1029	340	11.0	-	11.0	180	150.0	28	0.8	0.2	1 / 60	1550	115	1	MODINE	HC 18	-	REFER TO NOTES 1 - 5

NOTES:

1. PROVIDE MANUFACTURERS SINGLE STAGE THERMOSTAT REMOTE MOUNTED. REFER TO PLANS FOR THERMOSTAT LOCATION. IF UNIT IS PROVIDED WITH A UNIT MOUNTED STAT, AN ADDITIONAL WALL STAT SHALL BE PROVIDED.
2. PROVIDE INTEGRAL CONTROL VOLTAGE TRANSFORMER, RELAYS AND CONTROLS FOR A SINGLE POINT ELECTRICAL CONNECTION.
3. PROVIDE TEMPERATURE OVER LIMIT PROTECTION.
4. PROVIDE MANUFACTURERS MOUNTING BRACKET.
5. UNLESS NOTED OTHERWISE, MOUNT HEATER 10'-0" AFF. CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS AND MAINTAIN ALL REQUIRED CLEARANCES.
6. ALTERNATE #1: PROVIDE EQUIPMENT WITHIN ALTERNATE #1.
7. PROVIDE 14 GAUGE SECURITY FRONT COVER.
8. PROVIDE RELAY TO INTEGRATE HEATER TO BMS.
9. PROVIDE MOUNTING FRAME FOR RECESSED INSTALLATION.

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Civil: Pacheco Koch (214) 451-2765
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COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

MECHANICAL SCHEDULES

21913
07/13/2021
M003

FOR BID

BOILER SCHEDULE

MARK	TYPE	GPM	EWT (F)	LWT (F)	INPUT (MBH)	OUTPUT (MBH)	FUEL	ELECTRICAL VOLTS	ELECTRICAL PHASE	REGULATOR INLET PRESS. (IN W.C.)	MANUFACTURER	MODEL NO.	REMARKS	OPERATING WEIGHT (LBS.)
B-3	CONDENSING	75.0	140	180.0	1,500	1,443	NAT. GAS	120	1	8	LONCHINVAR	FBN 1501	1 - 7	2,325
B-4	CONDENSING	75.0	140	180.0	1,500	1,443	NAT. GAS	120	1	8	LONCHINVAR	FBN 1501	1 - 7	2,325

NOTES:

1. PROVIDE AIR LOCK DIRECT VENT SEALED COMBUSTION SYSTEM.
2. PROVIDE ALL SAFETIES.
3 PROVIDE AND INSTALL A CO SENSOR INTERLOCKED TO THE BURNER CONTROLLER AND MONITORED BY FIRE ALARM SYSTEM.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
5. PROVIDE ZERO-CLEARANCE KIT.
6. PROVIDE AIR INLET COVER FOR SINGLE PIPE VENTING METHOD.
7. PROVIDE CONDENSATE NEUTRALIZATION KIT.

EXPANSION TANK SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	TANK VOLUME (GAL)	MANUF.	MODEL NO.	REMARKS	OPERATING WEIGHT (>200 LBS.)
ET-1	BOILER ROOM	HEATING WATER	VERT. BLADDER	53	BELL & GOSSETT	B-200	NOTES 1 - 3	650

NOTES:

1. PROVIDE 4" CONCRETE HOUSE KEEPING PAD FOR FLOOR MOUNTED TANKS
2. TANK SHALL BEAR ASME LABEL FOR 'AT OR ABOVE' THE DESIGN PRESSURE INDICATED.
3. PROVIDE DRAIN VALVE AND LINE FULL SIZE TO THE NEAREST SAN. SEWER TERMINATION POINT.

AIR SEPERATOR SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	GPM	INLET / OUTLET SIZE (IN.)	MAX. P.D. (FT.)	MANUF.	MODEL NO.	REMARKS	OPERATING WEIGHT (>200 LBS.)
AS-1	BOILER ROOM	HEATING WATER	CENTRIGUGAL, FULL FLOW	300	4"	0.74	BELL & GOSSETT	RL-4FB	NOTES 1 - 3	275

NOTES:

1. RATED FOR 125 PSIG AT 200F.
2. INTEGRAL SEPARATOR AND AIR VENT.
3. MANUAL BLOWDOWN VALVE.

PUMP SCHEDULE

DESIG.	SERVICE	LOCATION	TYPE	GPM	HEAD (FT.)	MOTOR DATA HP	MOTOR DATA V / PH	MOTOR DATA RPM	MOTOR DATA STARTER	MINIMUM EFF.	MFG.	SERIES	MODEL NUMBER	OP. WEIGHT (>200 LBS.)	REMARKS
CHWP-1	CHILLED WATER	MECH RM.	END SUCTION, CENTRIFUGAL	310	95	15	460/3	1800	VFD	74%	BELL & GOSSETT	E-1510	3EB	775	SEE NOTES 1, 2, 3
CHWP-2	CHILLED WATER	MECH RM.	END SUCTION, CENTRIFUGAL	310	95	15	460/3	1800	VFD	74%	BELL & GOSSETT	E-1510	3EB	775	SEE NOTES 1, 2, 3
HHWP-1	HEATING HOT WATER	BOILER RM.	VERTICAL CLOSED COUPLE CENTRIF.	130	85	7.5	460/3	1800	VFD	61.5%	BELL & GOSSETT	E-80	2x2x9.5C	275	SEE NOTES 1, 2, 3
HHWP-2	HEATING HOT WATER	BOILER RM.	VERTICAL CLOSED COUPLE CENTRIF.	130	85	7.5	460/3	1800	VFD	61.5%	BELL & GOSSETT	E-80	2x2x9.5C	275	SEE NOTES 1, 2, 3

NOTES:
1. VARIABLE FREQUENCY DRIVE FOR SOFT START ONLY.
2. INSULATE PUMP CASE PER DIVISION 23 SPECIFICATIONS.
3. PROVIDE PUMP SUCTION DIFFUSER WITH FLEX CONNECTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

HYDRONIC WATER CONTROL VALVE / ACTUATOR SCHEDULE

DESIG.	LOCATION	ASSOC. EQUIP.	SERVICE	TYPE	VALVE TYPE	CHILL RETURN VALVES LINE SIZE (IN)	CHILL RETURN VALVES VALVE SIZE (IN)	CHILL RETURN VALVES GPM	ACT. CV	CLOSE-OFF PRESS. (PSI)	FAIL CLOSED (N.C.)	FAIL OPEN (N.O.)	MANUFACTURER	MODEL	REMARKS
CCV-1	LEVEL 1 - EAST - MECH ROOM	AHU-I-1	CHW COIL	3-WAY	BALL	3"	1-1/4"	62.3	18	40	--	X	HONEYWELL	VBN3DL	SEE NOTES 1 - 3
HCV-1	LEVEL 1 - EAST - MECH ROOM	AHU-I1	HW COIL	3-WAY	BALL	1-1/2"	1-1/4"	20.2	12	40	--	X	HONEYWELL	VBN3DK	SEE NOTES 1 - 3
CCV-2	LEVEL 1 - EAST - MECH ROOM	AHU-I2	CHW COIL	3-WAY	BALL	1-1/2"	3/4"	22.2	8	50	--	X	HONEYWELL	VBN3BK	SEE NOTES 1 - 3
HCV-2	LEVEL 1 - EAST - MECH ROOM	AHU-I2	HW COIL	3-WAY	BALL	1"	1"	8.2	19	50	--	X	HONEYWELL	VBN3CL	SEE NOTES 1 - 3
CCV-3	LEVEL 1 - EAST - MECH ROOM	AHU-I3	CHW COIL	3-WAY	BALL	2"	1-1/4"	45	9	40	--	X	HONEYWELL	VBN3DK	SEE NOTES 1 - 3
HCV-3	LEVEL 1 - EAST - MECH ROOM	AHU-I3	HW COIL	3-WAY	BALL	1-1/2"	1-1/4"	20.4	20	40	--	X	HONEYWELL	VBN3DM	SEE NOTES 1 - 3
CCV-4	LEVEL 1 - EAST - MECH ROOM	AHU-I4	CHW COIL	3-WAY	BALL	3"	2"	118.7	59	40	--	X	HONEYWELL	VBN3FR	SEE NOTES 1 - 3
HCV-4	LEVEL 1 - EAST - MECH ROOM	AHU-I4	HW COIL	3-WAY	BALL	2"	1-1/2"	48.8	27	40	--	X	HONEYWELL	VBN3EM	SEE NOTES 1 - 3
CCV-5	LEVEL 1 - EAST - MECH ROOM	AHU-I5	CHW COIL	3-WAY	BALL	3/4"	1/2"	2.7	3	50	--	X	HONEYWELL	VBN3AH	SEE NOTES 1 - 3
CCV-6	TIER LEVEL - EAST - MECH ROOM	AHU-I6	CHW COIL	3-WAY	BALL	2"	1-1/2"	45.5	51	40	--	X	HONEYWELL	VBN3EP	SEE NOTES 1 - 3
HCV-6	TIER LEVEL - EAST - MECH ROOM	AHU-I6	HW COIL	3-WAY	BALL	1-1/2"	1-1/4"	21.7	20	40	--	X	HONEYWELL	VBN3DM	SEE NOTES 1 - 3
CCV-7	TIER LEVEL - EAST - MECH ROOM	AHU-I7	CHW COIL	3-WAY	BALL	2"	1-1/4"	60	20	40	--	X	HONEYWELL	VBN3DM	SEE NOTES 1 - 3
HCV-7	TIER LEVEL - EAST - MECH ROOM	AHU-I7	HW COIL	3-WAY	BALL	1-1/2"	1-1/4"	22.9	30	40	--	X	HONEYWELL	VBN3DN	SEE NOTES 1 - 3
CCV-8	TIER LEVEL - EAST - MECH ROOM	AHU-I8	CHW COIL	3-WAY	BALL	2"	1-1/2"	45.2	30	40	--	X	HONEYWELL	VBN3EM	SEE NOTES 1 - 3
HCV-8	TIER LEVEL - EAST - MECH ROOM	AHU-I8	HW COIL	3-WAY	BALL	1-1/4"	1"	15.6	21	50	--	X	HONEYWELL	VBN3CL	SEE NOTES 1 - 3
CCV-9	TIER LEVEL - EAST - MECH ROOM	AHU-I9	CHW COIL	3-WAY	BALL	2"	1-1/2"	35.4	32	40	--	X	HONEYWELL	VBN3EM	SEE NOTES 1 - 3
HCV-9	TIER LEVEL - EAST - MECH ROOM	AHU-I9	HW COIL	3-WAY	BALL	1-1/4"	1"	14.7	27	50	--	X	HONEYWELL	VBN3CM	SEE NOTES 1 - 3
CCV-10	TIER LEVEL - EAST - MECH ROOM	AHU-I10	CHW COIL	3-WAY	BALL	1-1/2"	1-1/4"	28.6	26	40	--	X	HONEYWELL	VBN3DM	SEE NOTES 1 - 3
HCV-10	TIER LEVEL - EAST - MECH ROOM	AHU-I10	HW COIL	3-WAY	BALL	1-1/4"	1"	12.4	18	50	--	X	HONEYWELL	VBN3CL	SEE NOTES 1 - 3

NOTES
1. ALL VALVE ACTUATORS ARE PROPORTIONAL 24V ELECTRONIC WITH 2-10VDC CONTROL SIGNAL.
2. VALVES SHALL BE FULL PORT STAINLESS STEEL BALL AND STEM.
3. HONEYWELL VALVE AND ACUATORS ARE THE BASIS OF DESIGN. PRE-APPROVED ALTERNATES ARE ACCEPTABLE.

MOTORIZED DAMPER SCHEDULE

DESIG.	SERVES	SMOKE ZONE	CFM	DUCT DIMENSIONS	MANUFACTURER	ELECTRICAL DATA V/PH	MODEL NUMBER	REMARKS	OPERATING WEIGHT (>200 LBS)
M-1A	AHU-I-1	ZONE 5	2,815	64x18	RUSKIN	120/1	SD	1 - 9	-
M-1B	AHU-I-1	ZONE 5	4,070	54X18	RUSKIN	120/1	SD	1 - 9	-
M-1C	AHU-I-1	ZONE 5	1,300	18X12	RUSKIN	120/1	SD	1 - 9	-
M-1D	SSF-05	ZONE 5	4,350	28X14	RUSKIN	120/1	SD	1 - 9	-
M-2A	AHU-I-2	ZONE 6	1,230	20X12	RUSKIN	120/1	SD	1 - 9	-
M-2B	AHU-I-2	ZONE 6	1,120	26X14	RUSKIN	120/1	SD	1 - 9	-
M-2C	AHU-I-2	ZONE 6	780	16X8	RUSKIN	120/1	SD	1 - 9	-
M-2D	SSF-06	ZONE 6	2,020	16X14	RUSKIN	120/1	SD	1 - 9	-
M-3A	AHU-I-3	ZONE 7	2,615	36X12	RUSKIN	120/1	SD	1 - 9	-
M-3B	AHU-I-3	ZONE 7	2,595	34X20	RUSKIN	120/1	SD	1 - 9	-
M-3C	AHU-I-3	ZONE 7	1,515	24X12	RUSKIN	120/1	SD	1 - 9	-
M-3D	SSF-07	ZONE 7	5,060	18X28	RUSKIN	120/1	SD	1 - 9	-
M-6A	AHU-I-6	ZONE 3	1,395	16X16	RUSKIN	120/1	SD	1 - 9	-
M-6B	SEF-03	ZONE 3	54,190	56X54	RUSKIN	120/1	SD	1 - 9	-
M-6C	AHU-I-6	ZONE 3	8,925	30X30	RUSKIN	120/1	SD	1 - 9	-
M-6D	SSF-03A / SSF-03B / SSF-03C	ZONE 3	49,550	58X46	RUSKIN	120/1	SD	1 - 9	-
M-6E	AHU-I-6	ZONE 3	7,530	28X36	RUSKIN	120/1	SD	1 - 9	-
M-6F	NOTE USED 1								
M-7A	SSF-02	ZONE 2	37,725	46X44	RUSKIN	120/1	SD	1 - 9	-
M-7B	AHU-I-7	ZONE 2	2,995	20X22	RUSKIN	120/1	SD	1 - 9	-
M-7C	AHU-I-7	ZONE 2	7,180	28X28	RUSKIN	120/1	SD	1 - 9	-
M-7D	SEF-02	ZONE 2	41,260	46X46	RUSKIN	120/1	SD	1 - 9	-
M-7E	AHU-I-7	ZONE 2	4,185	30x26	RUSKIN	120/1	SD	1 - 9	-
M-8A	SSF-01	ZONE 1	13,205	28X32	RUSKIN	120/1	SD	1 - 9	-
M-8B	AHU-I-8	ZONE 1	2,515	20X20	RUSKIN	120/1	SD	1 - 9	-
M-8C	AHU-I-8	ZONE 1	5,295	28x26	RUSKIN	120/1	SD	1 - 9	-
M-8D	AHU-I-8	ZONE 1	2,780	44X16	RUSKIN	120/1	SD	1 - 9	-
M-8E	NOT USED 1								
M-9A	AHU-I-9	ZONE 4	880	14X14	RUSKIN	120/1	SD	1 - 9	-
M-9B	SEF-04	ZONE 4	37,390	44X46	RUSKIN	120/1	SD	1 - 9	-
M-9C	AHU-I-9	ZONE 4	7,175	30X26	RUSKIN	120/1	SD	1 - 9	-
M-9D	SSF-04	ZONE 4	34,165	36X56	RUSKIN	120/1	SD	1 - 9	-
M-9E	AHU-I-9	ZONE 4	6,295	46X20	RUSKIN	120/1	SD	1 - 9	-
M-9F	NOT USED 1								

NOTES:
1. TWO-POSITION, LOW LEAKAGE, SMOKE RATED DAMPER.
2. OPENS IN LESS THAN 10 SECONDS.
3. ACTUATOR MUST HAVE LOW-VOLTAGE CONTACTS FOR MONITORING BY FIRE ALARM PANEL.
4. PROVIDE END SWITCH ON THE OPPOSED BLADE.
5. FAIL OPEN IN ALARM.
6. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
7. WIRED BY ELECTRICAL CONTRACTOR.
8. CONTROLLED/MONITORED BY FIRE/SMOKE CONTRACTOR.
9. EACH ZONE SHALL BE ON SEPARATE POWER CIRCUIT, REFER TO ELECTRICAL DRAWINGS AND SCHEDULES.

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850
BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

MECHANICAL SCHEDULES

21913
07/13/2021
M004

FOR BID

2016 ASHRAE 62.1 CODE VENTILATION RATES

UNIT DESIG.	LOCATION (ROOM NO.)	ROOM DESCRIPTION	ROOM TYPE	NET OCCUPIABLE AREA	ACTUAL OCCUPANCY	CFM / PERSON	OUTSIDE AIR (OA) CFM=OCCUPANCY x CFM/PERSON	REQ'D. OA CFM / AREA SF	OUTSIDE AIR CFM=SF x (CFM / SF)	TOTAL OUTSIDE AIR (CFM)
AHU-I-7	2201 / 2202 / 2207	DAYROOM / DINING / TV	DAYROOM	4860	145	5	725	0.06	292	1,017
	2205	STAFF RESTROOM	TOILETS - PUBLIC	70	-	-	-	-	-	-
	2217	INMATE TOILET	TOILETS - PUBLIC	80	-	-	-	-	-	-
	2218	SHOWER	SHOWER ROOMS	105	-	-	-	-	-	-
	2219	JAN.	STORAGE ROOM	70	-	5	-	0.06	5	5
	2229	INMATE TOILET	TOILETS - PUBLIC	35	-	-	-	-	-	-
	2231	STORAGE	STORAGE ROOM	55	-	5	-	0.06	4	4
	3208	INMATE TOILET	TOILETS - PUBLIC	80	-	-	-	-	-	-
	3209	SHOWER	SHOWER ROOMS	105	-	-	-	-	-	-
	3211	JAN.	STORAGE ROOM	70	-	5	-	0.06	5	5
	3216	SAFETY VESTIBULE	CORRIDOR	130	-	-	-	0.06	8	8
	3222	INMATE TOILET	TOILETS - PUBLIC	35	-	-	-	-	-	-
	3223	STORAGE	STORAGE ROOM	55	-	5	-	0.06	4	4
									MINIMUM REQUIRED (CFM) =	1,043
									AREA - TOTAL INSTALLED (CFM) =	2,995
VRF-01/01	2001	CORRIDOR	CORRIDOR	1385	-	-	-	0.06	84	84
	2002	STORAGE ROOM	STORAGE ROOM	225	-	5	-	0.06	14	14
									MINIMUM REQUIRED (CFM) =	98
									AREA - TOTAL INSTALLED (CFM) =	170
VRF-01/02	2003	BREAK ROOM	BREAK ROOMS	390	4	5	20	0.06	24	44
	2004	STAFF TOILET	TOILETS - PUBLIC	75	-	-	-	-	-	-
									MINIMUM REQUIRED (CFM) =	44
									AREA - TOTAL INSTALLED (CFM) =	45
VRF-01/03	1301	CORRIDOR	CORRIDOR	720	-	-	-	0.06	44	44
	1302	VISIT	CONFERENCE/MEETING	55	2	5	10	0.06	4	14
	1303	VISIT	CONFERENCE/MEETING	40	1	5	5	0.06	3	8
	1304	FEMALE CHANGING CUBICLES	CORRIDOR	285	-	-	-	0.06	18	18
	1305	MALE CHANGING CUBICLES	CORRIDOR	285	-	-	-	0.06	18	18
	1306	RR STAFF	TOILETS - PUBLIC	70	-	-	-	-	-	-
	1307	ELEC. MON. VEND.	STORAGE ROOM	90	-	5	-	0.06	6	6
	1316	SAFETY VEST.	CORRIDOR	135	-	-	-	0.06	9	9
	1317	SAFETY VEST.	CORRIDOR	240	-	-	-	0.06	15	15
	1402	VISIT	CONFERENCE/MEETING	50	2	5	10	0.06	3	13
	1403	VISIT	CONFERENCE/MEETING	40	1	5	5	0.06	3	8
									MINIMUM REQUIRED (CFM) =	153
									AREA - TOTAL INSTALLED (CFM) =	155
VRF-01/04	1308	RECORDS / BOND OFFICE STATION	OFFICE SPACE	365	1	5	5	0.06	22	27
	1309	BONDING SUPV.	OFFICE SPACE	155	-	5	-	0.06	10	10
	1311	RELEASE PROCESSING STATION	OFFICE SPACE	400	1	5	5	0.06	24	29
	1312	INMATE RR	TOILETS - PUBLIC	50	-	-	-	-	-	-
	1313	SAFETY VEST.	CORRIDOR	50	-	-	-	0.06	3	3
									MINIMUM REQUIRED (CFM) =	69
									AREA - TOTAL INSTALLED (CFM) =	110
VRF-01/05	1314	OPEN WAIT - SELF REPORTS	MAIN ENTRY LOBBIES	305	3	5	15	0.06	19	34
	1315	INMATE RR	TOILETS - PUBLIC	45	-	-	-	-	-	-
	1401	CORRIDOR	CORRIDOR	1025	-	-	-	0.06	62	62
									MINIMUM REQUIRED (CFM) =	96
									AREA - TOTAL INSTALLED (CFM) =	125
VRF-01/06	1405	CORRIDOR	CORRIDOR	905	-	-	-	0.06	55	55
	1406	CORRIDOR	CORRIDOR	230	-	-	-	0.06	14	14
									MINIMUM REQUIRED (CFM) =	69
									AREA - TOTAL INSTALLED (CFM) =	70
VRF-01/07	1208	CORRIDOR	CORRIDOR	930	-	-	-	0.06	56	56
	1210	FEMALE SHOWER / SEARCH	SHOWER ROOMS	415	-	-	-	-	-	-
	1211	MALE SHOWER / SEARCH	SHOWER ROOMS	415	-	-	-	-	-	-
									MINIMUM REQUIRED (CFM) =	56
									AREA - TOTAL INSTALLED (CFM) =	110
VRF-01/08	2024	CORRIDOR	CORRIDOR	1215	-	-	-	0.06	73	73
									MINIMUM REQUIRED (CFM) =	73
									AREA - TOTAL INSTALLED (CFM) =	75
VRF-01/09	2024	INMATE TRANSFER / CIRCULATION	CORRIDOR	935	-	-	-	0.06	57	57
									MINIMUM REQUIRED (CFM) =	57
									AREA - TOTAL INSTALLED (CFM) =	60
VRF-02/01	2017	IT	TELEPHONE CLOSETS	508	-	-	-	-	-	-
VRF-02/02	2017	IT	TELEPHONE CLOSETS	508	-	-	-	-	-	-
VRF-02/03	1213	IT	TELEPHONE CLOSETS	175	-	-	-	-	-	-
VRF-02/04	2015	IT	TELEPHONE CLOSETS	110	-	-	-	-	-	-
VRF-02/05	1026	ELEC	TELEPHONE CLOSETS	75	-	-	-	-	-	-
									MINIMUM REQUIRED (CFM) =	0
									AREA - TOTAL INSTALLED (CFM) =	-
VRF-03/01	1108	BOOKING / RELEASE / CLASS. SUPV.	OFFICE SPACE	155	-	5	-	0.06	10	10
	1109	JAN.	STORAGE ROOM	50	-	5	-	0.06	3	3
	1110	ADMISSIONS / RELEASE MGR.	OFFICE SPACE	155	-	5	-	0.06	10	10
	1111	OFFICE	OFFICE SPACE	155	-	5	-	0.06	10	10
	1112	PRINT / COPY / WORK ALCOVE	OFFICE SPACE	220	1	5	5	0.06	14	19
	1113	STAFF BREAK ROOM	BREAK ROOMS	285	5	5	25	0.06	18	43
									MINIMUM REQUIRED (CFM) =	95
									AREA - TOTAL INSTALLED (CFM) =	100
VRF-04/01	1404	ELEC	TELEPHONE CLOSETS	365	-	-	-	-	-	-
VRF-04/02	1318	ELEV. MACHINE ROOM	TELEPHONE CLOSETS	85	-	-	-	-	-	-
									MINIMUM REQUIRED (CFM) =	0
									AREA - TOTAL INSTALLED (CFM) =	-
									BUILDING - MINIMUM REQUIRED (CFM) =	1,853
									BUILDING - TOTAL INSTALLED OUTSIDE AIR (CFM) =	4,015

ASHRAE Standard 62.1-2004-2010
By MD ENGINEERING

System Ventilation Requirements

AHU Location	Description		∑ Vpz cfm	Ps People	∑ Pz People	D Ps / ∑ Pz	Vou cfm	Vps cfm	Xs	Ev	Vot cfm	%OA Vot / Vps
Alternative 1												
Zone	AHU-I8	Cooling	5,292	72	72	1.00	2,300	5,292	0.435	0.916	2,511	47.5
		Heating	5,292	72	72	1.00	2,300	5,292	0.435	0.916	2,511	47.5
Zone	AHU-I7	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	AHU-I6	Cooling	8,925	72	72	1.00	1,186	8,925	0.133	0.910	1,304	14.6
		Heating	8,925	72	72	1.00	1,186	8,925	0.133	0.850	1,396	15.6
Zone	AHU-I9	Cooling	7,171	36	36	1.00	679	7,171	0.095	0.849	800	11.2
		Heating	7,171	36	36	1.00	679	7,171	0.095	0.774	878	12.2
Zone	AHU-I0	Cooling	4,785	57	57	1.00	719	4,785	0.150	0.725	992	20.7
		Heating	4,785	57	57	1.00	719	4,785	0.150	0.619	1,162	24.3
Zone	VRF-01/01 - (Calc 1396)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/02 - (Calc 449)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/03 - (calc 1239)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/04 - (calc 548)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/05 - (calc 1586)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/06 - (calc 987)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/07 - (calc 826)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/08 - (calc 721)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-01/09 - (calc 556)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0

Project Name: 201254 Collin Co ADF Booking Add
Dataset Name: 201254-LOAD.TRC

TRACE® 700 v6.3.5 calculated at 01:01 PM on 04/07/2021
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 1 of 23

ASHRAE Standard 62.1-2004-2010
By MD ENGINEERING

System Ventilation Requirements

AHU Location	Description		∑ Vpz cfm	Ps People	∑ Pz People	D Ps / ∑ Pz	Vou cfm	Vps cfm	Xs	Ev	Vot cfm	%OA Vot / Vps
Alternative 1												
Room	Heat Only	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	1,298	0	0	1.00	0	1,298	0.000	1.000	0	0.0
Zone	AHU-I5	Cooling	720	14	14	1.00	59	720	0.082	1.000	59	8.2
		Heating	720	14	14	1.00	59	720	0.082	1.000	59	8.2
Zone	AHU-I1	Cooling	6,915	165	165	1.00	1,737	6,915	0.251	0.744	2,334	33.8
		Heating	6,915	165	165	1.00	1,737	6,915	0.251	0.617	2,814	40.7
Zone	AHU-I2	Cooling	2,425	68	68	1.00	654	2,425	0.270	0.680	962	39.7
		Heating	2,425	68	68	1.00	654	2,425	0.270	0.532	1,228	50.6
Zone	AHU-I3	Cooling	5,210	70	70	1.00	1,769	5,210	0.339	0.811	2,182	41.9
		Heating	5,210	70	70	1.00	1,769	5,210	0.339	0.678	2,607	50.0
Zone	AHU-I4	Cooling	13,346	0	0	1.00	6,646	13,346	0.498	0.998	6,660	49.9
		Heating	13,346	0	0	1.00	6,646	13,346	0.498	0.998	6,660	49.9
Zone	VRF-02/01 - 02	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-02/04 (assumed 2T Future IT	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-02/05	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-02/03 (assumed 2T Future IT	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-03/01 - (calc 732)	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-04/01	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0
Zone	VRF-04/02	Cooling	0	0	0	0.00	0	0	0.000	0.000	0	0.0
		Heating	0	0	0	0.00	0	0	0.000	0.000	0	0.0

* Apply Single Zone Ventilation Calculation

Project Name: 201254 Collin Co ADF Booking Add
Dataset Name: 201254-LOAD.TRC

TRACE® 700 v6.3.5 calculated at 01:01 PM on 04/07/2021
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 2 of 23

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNIT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER

MECHANICAL SCHEDULES

21913
07/13/2021
M006

FOR BID

ASHRAE Standard 62.1-2004-2010

By MD ENGINEERING

Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	Cooling Ez	Cooling Voz cfm	Heating Ez	Heating Voz cfm
Alternative 1											
24/19c - Storage	Corridors	0.00	0.00	0.06	220	13		1.00	13	0.80	17
24/19d - Storage	Corridors	0.00	0.00	0.06	140	8		1.00	8	0.80	10
AHU-I6		2.50	72.00	0.11	9,565	1,186			1,186		1,303
AHU-I6 - Mens Dorm (N Pod)		2.50	72.00	0.11	9,565	1,186			1,186		1,303
21/01 - DAYROOM/DINING/TV	None	0.00	18.00	285.00	2,030	285		1.00	285	1.00	285
21/02 - DORMITORY	Barracks sleeping areas	5.00	4.00	0.06	330	40		1.00	40	0.80	50
21/05 - STAFF RESTROOM	Corridors	0.00	0.00	0.06	80	5		1.00	5	0.80	6
21/07 - STORAGE	Storage rooms	0.00	0.00	0.12	130	16		1.00	16	0.80	19
21/08 - Storage - 2309	Storage rooms	0.00	0.00	0.12	65	8		1.00	8	0.80	10
21/09 - Domitory - 2311	Barracks sleeping areas	5.00	2.00	0.06	170	20		1.00	20	0.80	25
21/10 - Dayroom / Showers	Office space	5.00	0.00	0.06	965	58		1.00	58	0.80	72
21/11 - Domitory - 2316/2317	Barracks sleeping areas	5.00	4.00	0.06	330	40		1.00	40	0.80	50
21/12 - JC - 2318	Storage rooms	0.00	0.00	0.12	85	10		1.00	10	0.80	13
21/14 - DORMITORY - 2321/2322	Barracks sleeping areas	5.00	4.00	0.06	330	40		1.00	40	0.80	50
21/15 - CORRIDOR / Inmate Toilet	Corridors	0.00	0.00	0.06	920	55		1.00	55	0.80	69
21/16 - Dormitory - 2325/2326	Barracks sleeping areas	5.00	4.00	0.06	325	40		1.00	40	0.80	49
21/17 - JC - 2327	Storage rooms	0.00	0.00	0.12	130	16		1.00	16	0.80	19
21/18 - Storage - 2328	Storage rooms	0.00	0.00	0.12	125	15		1.00	15	0.80	19
21/19 - STAIR	Corridors	0.00	0.00	0.06	275	17		1.00	17	0.80	21
21/20 - Stair	Corridors	0.00	0.00	0.06	275	17		1.00	17	0.80	21
AHU-I9		2.50	36.00	0.09	6,565	679			679		778
AHU-I9 - Female Dorm (SW Pod)		2.50	36.00	0.09	6,565	679			679		778
13/01 - OFFICER WORK STATION	Office space	5.00	2.00	0.06	245	25		1.00	25	0.80	31
13/02 - CORRIDORS	Corridors	0.00	0.00	0.06	1,940	116		1.00	116	0.80	145
13/03 - MEDICAL Distribution - 2006	Office space	5.00	2.00	0.06	105	16		1.00	16	0.80	20
13/04 - MED Distribution- 2303	Office space	5.00	2.00	0.06	90	15		1.00	15	0.80	19
13/05 - MULTIPURPOSE ROOM	Multi-purpose assembly	5.00	9.00	0.06	285	62		1.00	62	0.80	78
13/06 - Corridor	Corridors	0.00	0.00	0.06	365	22		1.00	22	0.80	27
13/07 - Corridor	Corridors	0.00	0.00	0.06	630	38		1.00	38	0.80	47
13/08 - Corridor / SV - 2120/2148	Corridors	0.00	0.00	0.06	295	18		1.00	18	0.80	22
13/09 - Visit - 2054/2056/2089/2100/211	Conference/ meeting	8.65	20.00	0.10	585	229		1.00	229	0.80	287

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By MD ENGINEERING

Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	Cooling Ez	Cooling Voz cfm	Heating Ez	Heating Voz cfm
Alternative 1											
26/01 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/02 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/03 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/04 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/06 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/07 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/08 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/09 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/11 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/12 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/13 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/15 - HC DBL	None	0.00	2.00	4.11	90	71		1.00	71	1.00	71
26/16 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/17 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
26/18 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/19 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/20 - SEP CELL	None	0.00	2.00	4.11	85	67		1.00	67	1.00	67
26/21 - SEP CELL	None	0.00	2.00	4.11	80	63		1.00	63	1.00	63
22/01 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/02 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/03 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/04 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/06 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/07 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/08 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/09 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/11 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/12 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/13 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/15 - SEP CELL	None	0.00	2.00	4.11	90	65		1.00	65	1.00	65
22/16 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61

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By MD ENGINEERING

Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	Cooling Ez	Cooling Voz cfm	Heating Ez	Heating Voz cfm
Alternative 1											
13/10 - Medical Distribution - 2103	Office space	5.00	2.00	0.06	85	15		1.00	15	0.80	19
13/11 - MULTIPURPOSE	Multi-purpose assembly	5.00	9.00	0.06	290	62		1.00	62	0.80	78
13/12 - MULTIPURPOSE	Multi-use assembly	7.50	9.00	0.06	290	85		1.00	85	0.80	106
13/13 - Medical Distribution - 2203	Office space	5.00	2.00	0.06	85	15		1.00	15	0.80	19
AHU-I0		6.68	57.00	0.06	5,290	719			719		899
AHU-I0 - Guard & Support Area		6.68	57.00	0.06	5,290	719			719		899
16/01 - MECH / ELC - 2004	None	0.00	0.00	0.00	1,750	0		0.00	0	1.00	0
16/01B - MECH / ELC - 2004	None	0.00	0.00	0.00	185	0		0.00	0	1.00	0
UH-01		0.00	0.00	0.00	1,935	0			0		0
10/01 - Mechanical	None	0.00	0.00	0.00	175	0		0.00	0	1.00	0
UH-02		0.00	0.00	0.00	175	0			0		0
15/01 - Vehicle Sallyport	None	0.00	0.00	0.00	10,835	0		0.00	0	1.00	0
UH-03 & 04 & 05		0.00	0.00	0.00	10,835	0			0		0
17/01 - Mechanical	None	0.00	0.00	0.00	190	0		0.00	0	1.00	0
UH-06		0.00	0.00	0.00	190	0			0		0
18/01 - Future Finishout	None	0.00	0.00	0.00	1,510	0		0.00	0	1.00	0
UH-07 & 08		0.00	0.00	0.00	1,510	0			0		0
16/01A - BOILER RM	None	0.00	0.00	0.00	185	0		0.00	0	1.00	0
UH-09		0.00	0.00	0.00	185	0			0		0
28/01 - Alternate 1 - shell	None	0.00	0.00	0.00	3,037	0		0.00	0	1.00	0
UH-10 & 11 & 12		0.00	0.00	0.00	3,037	0			0		0
Heat Only		0.00	0.00	0.00	17,867	0			0		0
01/01 - Court Room	Courtrooms	2.50	14.00	0.03	810	59		1.00	59	0.80	74
AHU-I5		2.50	14.00	0.03	810	59			59		74
AHU-I5 - Courtroom (IONIZER)		2.50	14.00	0.03	810	59			59		74
08/01 - ADA RR INMATE	Corridors	0.00	0.00	0.06	60	4		1.00	4	0.80	5
08/02 - RR INMATE	Corridors	0.00	0.00	0.06	40	2		1.00	2	0.80	3
08/03 - SECURE HOLDING CELL	Barracks sleeping areas	5.00	5.00	0.06	150	34		1.00	34	0.80	43
08/04 - SECURE HOLDING CELL	Barracks sleeping areas	5.00	5.00	0.06	150	34		1.00	34	0.80	43
08/05 - SECURE HOLDING CELL	Barracks sleeping areas	5.00	5.00	0.06	150	34		1.00	34	0.80	43
08/06 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	90	20		1.00	20	0.80	26

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Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	Cooling Ez	Cooling Voz cfm	Heating Ez	Heating Voz cfm
Alternative 1											
22/17 - ESP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
22/18 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/19 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/20 - SEP CELL	None	0.00	2.00	4.11	85	61		1.00	61	1.00	61
22/21 - SEP CELL	None	0.00	2.00	4.11	80	58		1.00	58	1.00	58
23/13 - STAIR - ST02	Corridors	0.00	0.00	0.06	265	16		1.00	16	0.80	20
23/06 - Safety Vestibule - 1219	Corridors	0.00	0.00	0.06	130	8		1.00	8	0.80	10
23/15 - Stair	Corridors	0.00	0.00	0.06	265	16		1.00	16	0.80	20
AHU-I8		0.00	72.00	0.63	3,660	2,300			2,300		2,310
AHU-I8 - Dbl Cells - (SE Pod)		0.00	72.00	0.63	3,660	2,300			2,300		2,310
24/01 - Dorm 2118	Barracks sleeping areas	5.00	2.00	0.06	165	20		1.00	20	0.80	25
24/02 - JANITOR	Storage rooms	0.00	0.00	0.12	100	12		1.00	12	0.80	15
24/03 - Dorm - 2125	Barracks sleeping areas	5.00	2.00	0.06	165	20		1.00	20	0.80	25
24/04 - DAYROOM/DINING/TV	None	0.00	36.00	0.44	2,600	467		1.00	467	1.00	467
24/05 - STAFF RESTROOM	Corridors	0.00	0.00	0.06	70	4		1.00	4	0.80	5
24/09 - Dormitory - 2119/2121/2122/212	Barracks sleeping areas	5.00	8.00	0.06	670	80		1.00	80	0.80	100
24/10 - HC Domitory - 2117	Barracks sleeping areas	5.00	2.00	0.06	155	19		1.00	19	0.80	24
24/11a - Domitory - 2113	Barracks sleeping areas	5.00	2.00	0.06	165	20		1.00	20	0.80	25
24/12 - Dayroom / Dining / TV - 2101	None	0.00	0.00	0.44	1,385	107		1.00	107	1.00	107
24/13 - Dorm - 3109	Barracks sleeping areas	5.00	2.00	0.06	160	20		1.00	20	0.80	24
24/14 - Domitory - 2135/2136/2137/213	Barracks sleeping areas	5.00	8.00	0.06	660	80		1.00	80	0.80	100
24/15 - JANITOR	Storage rooms	0.00	0.00	0.12	100	12		1.00	12	0.80	15
24/16 - Dorm - 3116	Barracks sleeping areas	5.00	2.00	0.06	160	20		1.00	20	0.80	24
24/17 - CORRIDOR, DORMITORY	None	0.00	0.00	0.44	1,385	147		1.00	147	1.00	147
24/18 - Domitory - 2134	Barracks sleeping areas	5.00	2.00	0.06	155	19		1.00	19	0.80	24
24/19a - Domitory - 3104	Barracks sleeping areas	5.00	2.00	0.06	165	20		1.00	20	0.80	25
24/20 - STAIR - ST03	Corridors	0.00	0.00	0.06	265	16		1.00	16	0.80	20
24/11b - Domitory - 2111	Barracks sleeping areas	5.00	2.00	0.06	160	20		1.00	20	0.80	24
24/11c - Storage	Storage rooms	0.00	0.00	0.12	220	26		1.00	26	0.80	33
24/11d - storage	Storage rooms	0.00	0.00	0.12	140	17		1.00	17	0.80	21
24/19b - Domitory - 3102	Barracks sleeping areas	5.00	2.00	0.06	160	20		1.00	20	0.80	24

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BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489

MECHANICAL SCHEDULES

21913
07/13/2021
M007

FOR BID

ASHRAE Standard 62.1-2004-2010

By MD ENGINEERING

Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	— Cooling — Ez	Voz cfm	— Heating — Ez	Voz cfm
Alternative 1											
05/08 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	95	21		1.00	21	0.80	26
05/09 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	95	21		1.00	21	0.80	26
05/10 - HC HOLDING CELL	Barracks sleeping areas	5.00	4.00	0.06	115	27		1.00	27	0.80	34
05/11 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	100	21		1.00	21	0.80	26
05/12 - OPEN WAITING TRANSFER	Lobbies	33.70	30.00	0.35	1,270	1,452		1.00	1,452	0.80	1,815
05/13 - Female Changing	Corridors	0.00	0.00	0.06	230	14		1.00	14	0.80	17
05/14 - Janitor	Storage rooms	0.00	0.00	0.00	30	0		1.00	0	1.00	0
05/15 - Male Changing	Corridors	0.00	0.00	0.06	235	14		1.00	14	0.80	18
05/16 - Plumbing Chase	Corridors	0.00	0.00	0.00	10	0		1.00	0	1.00	0
06/09 - SAFETY VESTIBLUE	Corridors	0.00	0.00	0.06	50	3		1.00	3	0.80	4
AHU-I3		17.30	70.00	0.17	3,270	1,769			1,769		2,211
AHU-I3 - Transfer Area		17.30	70.00	0.17	3,270	1,769			1,769		2,211
04/01 - PROPERTY STORAGE ROOM	None	0.00	0.00	6.00	3,280	5,904		1.00	5,904	1.00	5,904
04/02 - JAIL CLOTHING STORAGE	None	0.00	0.00	6.00	275	495		1.00	495	1.00	495
04/03 - JANITOR	Storage rooms	0.00	0.00	0.12	45	5		1.00	5	0.80	7
04/04 - Val Prop Storage	None	0.00	0.00	6.00	130	234		1.00	234	1.00	234
04/05 - Laundry	Laundry Rooms, Central	5.00	0.00	0.12	65	8		1.00	8	0.80	10
AHU-I4		0.00	0.00	1.75	3,795	6,646			6,646		6,650
AHU-I4 - Prop Stor - (50% OSA)		0.00	0.00	1.75	3,795	6,646			6,646		6,650

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Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	— Cooling — Ez	Voz cfm	— Heating — Ez	Voz cfm
Alternative 1											
08/07 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	90	20		1.00	20	0.80	26
08/08 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	90	20		1.00	20	0.80	26
08/09 - Detox Cell	Barracks sleeping areas	5.00	2.00	0.06	90	15		1.00	15	0.80	19
08/10 - DETOX HOLDING CELL	Barracks sleeping areas	5.00	5.00	0.06	165	35		1.00	35	0.80	44
08/11 - STOR	Storage rooms	0.00	0.00	0.12	60	7		1.00	7	0.80	9
08/12 - AFIS/FINGER	Corridors	0.00	0.00	0.06	305	18		1.00	18	0.80	23
08/13 - HEALTH SCREEN	Office space	5.00	4.00	0.06	180	31		1.00	31	0.80	39
08/14 - Female/Male	Reception areas	5.00	95.00	0.06	1,435	561		1.00	561	0.80	701
08/15 - PRE TRIAL SERVICES	Office space	5.00	12.00	0.06	545	93		1.00	93	0.80	116
08/16 - HEALTH EXAM	Examination Room	0.00	2.00	2.00	115	69	2.0	1.00	69	0.80	86
08/17 - HEALTH EXAM	Examination Room	0.00	2.00	2.00	115	69	2.0	1.00	69	0.80	86
08/18 - RR INMATE	Corridors	0.00	0.00	0.06	40	2		1.00	2	0.80	3
08/19 - ADA RR INMATE	Corridors	0.00	0.00	0.06	55	3		1.00	3	0.80	4
08/20 - MENTAL HEALTH SCREENING	Patient Room	0.00	2.00	2.02	100	61	2.0	1.00	61	0.80	76
08/21 - MENTAL HEALTH SCREENING	Patient Room	0.00	2.00	2.00	100	60	2.0	1.00	60	0.80	75
08/22 - MED STO	Medication Room	0.00	0.00	2.00	55	33	2.0	1.00	33	0.80	41
08/23 - RR STAFF	Corridors	0.00	0.00	0.06	85	5		1.00	5	0.80	6
08/24 - INTERVIEW	Office space	5.00	2.00	0.06	90	15		1.00	15	0.80	19
08/25 - INTERVIEW	Office space	5.00	2.00	0.06	90	15		1.00	15	0.80	19
08/26 - INTERVIEW	Office space	5.00	2.00	0.06	90	15		1.00	15	0.80	19
08/27 - SAFETY VEST	Corridors	0.00	0.00	0.06	80	5		1.00	5	0.80	6
08/28 - CORRIDOR	Corridors	0.00	0.00	0.06	1,765	106		1.00	106	0.80	132
08/29 - RR STAFF	Corridors	0.00	0.00	0.06	60	4		1.00	4	0.80	5
08/30 - RR STAFF	Corridors	0.00	0.00	0.06	60	4		1.00	4	0.80	5
08/31 - Stair	Corridors	0.00	0.00	0.06	265	16		1.00	16	0.80	20
08/33 - REC/BOND	Office space	5.00	8.00	0.06	2,330	180		1.00	180	0.80	225
08/40 - BODY SCAN	Office space	5.00	1.00	0.06	345	26		1.00	26	0.80	32
08/41 - Plumbing Chase	Corridors	0.00	0.00	0.06	50	3		1.00	3	0.80	4
08/42 - Plumbing Chase	Corridors	0.00	0.00	0.06	345	21		1.00	21	0.80	26
08/44 - Safety Vest	Corridors	0.00	0.00	0.06	65	4		1.00	4	0.80	5
08/45 - Corridor	Corridors	0.00	0.00	0.06	1,535	92		1.00	92	0.80	115

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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz	
Alternative 1														
26/01 - SEP CELL	Single Fan CV	150	150	150	0	63	0.421	1.00	0.00	1.00	1.00	1.00	1.000	
26/02 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/03 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/04 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/06 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/07 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/08 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/09 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/11 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/12 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/13 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/15 - HC DBL	Single Fan CV	138	138	138	0	71	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/16 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/17 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/18 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/19 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/20 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
26/21 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921	
22/01 - SEP CELL	Single Fan CV	125	125	125	0	58	0.460	1.00	0.00	1.00	1.00	1.00	0.975	
22/02 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/03 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/04 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/06 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942	
22/07 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942	
22/08 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942	
22/09 - SEP CELL	Single Fan CV	125	125	125	0	61	0.491	1.00	0.00	1.00	1.00	1.00	0.944	
22/11 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/12 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/13 - SEP CELL	Single Fan CV	119	119	119	0	58	0.483	1.00	0.00	1.00	1.00	1.00	0.951	
22/15 - SEP CELL	Single Fan CV	130	130	130	0	65	0.499	1.00	0.00	1.00	1.00	1.00	0.935	
22/16 - SEP CELL	Single Fan CV	120	120	120	0	61	0.512	1.00	0.00	1.00	1.00	1.00	0.923	
22/17 - ESP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*
22/18 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916	*

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Ventilation Parameters

System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Std 170 Min OA ach	— Cooling — Ez	Voz cfm	— Heating — Ez	Voz cfm
Alternative 1											
AHU-I1		4.76	165.00	0.08	11,435	1,737			1,737		2,171
AHU-I1 - Booking		4.76	165.00	0.08	11,435	1,737			1,737		2,171
06/01 - SECURE HOLDING	Barracks sleeping areas	5.00	6.00	0.06	145	39		1.00	39	0.80	48
06/02 - SAFETY VEST	Corridors	0.00	0.00	0.06	150	9		1.00	9	0.80	11
06/03 - INTOX	Office space	5.00	6.00	0.06	145	39		1.00	39	0.80	48
06/04 - HOLDING CELL - HC	Barracks sleeping areas	5.00	4.00	0.06	120	27		1.00	27	0.80	34
06/05 - HOLDING CELL	Barracks sleeping areas	5.00	1.00	0.06	65	9		1.00	9	0.80	11
06/06 - HOLDING CELL	Barracks sleeping areas	5.00	1.00	0.06	65	9		1.00	9	0.80	11
06/07 - HOLDING CELL	Barracks sleeping areas	5.00	1.00	0.06	65	9		1.00	9	0.80	11
06/08 - RR STAFF	Corridors	0.00	0.00	0.06	60	4		1.00	4	0.80	5
06/10 - JANITOR	Storage rooms	0.00	0.00	0.12	60	7		1.00	7	0.80	9
06/11 - RR INMATE	Corridors	0.00	0.00	0.06	45	3		1.00	3	0.80	3
06/12 - RR INMATE	Corridors	0.00	0.00	0.06	45	3		1.00	3	0.80	3
06/13 - ADA RR INMATE	Corridors	0.00	0.00	0.06	65	4		1.00	4	0.80	5
06/14 - OPEN WATING,ARRESTEE TR	Corridors	0.00	0.00	0.06	535	32		1.00	32	0.80	40
06/15 - OPEN WAITING ARRESTEE TI	Lobbies	7.52	32.00	0.09	390	274		1.00	274	0.80	342
06/16 - OPEN WAITING NEW ARREST	Corridors	0.00	0.00	0.06	595	36		1.00	36	0.80	45
06/17 - ARRESTING OFF WK AREA	Office space	5.00	9.00	0.06	645	84		1.00	84	0.80	105
06/18 - Pre-Booking	Office space	5.00	4.00	0.06	80	25		1.00	25	0.80	31
06/19 - Print	Office space	5.00	0.00	0.06	80	5		1.00	5	0.80	6
06/20 - Storage	Storage rooms	0.00	0.00	0.12	60	7		1.00	7	0.80	9
08/39 - Health Screen	Office space	5.00	4.00	0.06	190	31		1.00	31	0.80	39
AHU-I2		6.19	68.00	0.06	3,605	654			654		817
AHU-I2 - Pre-Booking		6.19	68.00	0.06	3,605	654			654		817
05/01 - SECURE GROUP HOLDING CI	Barracks sleeping areas	5.00	8.00	0.06	200	52		1.00	52	0.80	65
05/02 - HOLDING CELL	Barracks sleeping areas	5.00	3.00	0.06	105	21		1.00	21	0.80	27
05/03 - Plumbing Chase	Corridors	0.00	0.00	0.00	10	0		1.00	0	1.00	0
05/04 - Transfer Coordinator	Office space	5.00	1.00	0.06	165	15		1.00	15	0.80	19
05/05 - Safety Vestibule	Corridors	0.00	0.00	0.06	140	8		1.00	8	0.80	10
05/06 - SECURE GROUP HOLDING CI	Barracks sleeping areas	5.00	7.00	0.06	190	46		1.00	46	0.80	58
05/07 - SECURE GROUP HOLDING CI	Barracks sleeping areas	5.00	8.00	0.06	230	54		1.00	54	0.80	67

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BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaffaTech (972) 633-3850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

1

MECHANICAL SCHEDULES

FOR BID

21913
07/13/2021
M008

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengrus@md-eng.com Project No.: 201254

ASHRAE Standard 62.1-2004-2010
By MD ENGINEERING

Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AHU-I0		4,785	4,785	4,785	0	719							0.725
AHU-I0 - Guard & Support Area		4,785	4,785	4,785	0	719							0.725
VRF-01/01 - (Calc 1396)		0	0	0	0	0							0.000
VRF-01/02 - (Calc 449)		0	0	0	0	0							0.000
VRF-01/03 - (calc 1239)		0	0	0	0	0							0.000
VRF-01/04 - (calc 548)		0	0	0	0	0							0.000
VRF-01/05 - (calc 1586)		0	0	0	0	0							0.000
VRF-01/06 - (calc 987)		0	0	0	0	0							0.000
VRF-01/07 - (calc 826)		0	0	0	0	0							0.000
VRF-01/08 - (calc 721)		0	0	0	0	0							0.000
VRF-01/09 - (calc 556)		0	0	0	0	0							0.000
CU-01		0	0	0	0	0							0.000
16/01 - MECH / ELC - 2004	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
16/01B - MECH / ELC - 2004	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-01		0	0	0	0	0							0.000
10/01 - Mechanical	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-02		0	0	0	0	0							0.000
15/01 - Vehicle Sallyport	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-03 & 04 & 05		0	0	0	0	0							0.000
17/01 - Mechanical	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-06		0	0	0	0	0							0.000
18/01 - Future Finishout	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-07 & 08		0	0	0	0	0							0.000
16/01A - BOILER RM	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-09		0	0	0	0	0							0.000
28/01 - Alternate 1 - shell	Induction	0	0	0	0	0	0.000	0.00	0.00	0.00	0.00	0.00	0.000
UH-10 & 11 & 12		0	0	0	0	0							0.000
Heat Only		0	0	0	0	0							0.000
01/01 - Court Room	Single Fan CV	720	720	720	0	59	0.082	1.00	0.00	1.00	1.00	1.00	1.000 *
AHU-I5		720	720	720	0	59							1.000
AHU-I5 - Courtroom (IONIZER)		720	720	720	0	59							1.000
08/01 - ADA RR INMATE	Single Fan CV	15	15	15	0	4	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/02 - RR INMATE	Single Fan CV	10	10	10	0	2	0.237	1.00	0.00	1.00	1.00	1.00	1.000

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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
22/19 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/20 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/21 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
23/13 - STAIR - ST02	Single Fan CV	220	220	220	0	16	0.072	1.00	0.00	1.00	1.00	1.00	1.000
23/06 - Safety Vestibule - 1219	Single Fan CV	164	164	164	0	8	0.047	1.00	0.00	1.00	1.00	1.00	1.000
23/15 - Stair	Single Fan CV	447	447	447	0	16	0.036	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I8		5,292	5,292	5,292	0	2,300							0.916
AHU-I8 - Dbl Cells - (SE Pod)		5,292	5,292	5,292	0	2,300							0.916
AHU-I7		0	0	0	0	0							0.000
AHU-I7 - Dayroom for Dbl Cell (SE)		0	0	0	0	0							0.000
24/01 - Dorm 2118	Single Fan CV	230	230	230	0	20	0.087	1.00	0.00	1.00	1.00	1.00	1.000
24/02 - JANITOR	Single Fan CV	50	50	50	0	12	0.240	1.00	0.00	1.00	1.00	1.00	0.910 *
24/03 - Dorm - 2125	Single Fan CV	230	230	230	0	20	0.087	1.00	0.00	1.00	1.00	1.00	1.000
24/04 - DAYROOM/DINING/TV	Single Fan CV	2,460	2,460	2,460	0	467	0.190	1.00	0.00	1.00	1.00	1.00	0.943
24/05 - STAFF RESTROOM	Single Fan CV	155	155	155	0	4	0.027	1.00	0.00	1.00	1.00	1.00	1.000
24/09 - Dormitory - 2119/2121/	Single Fan CV	930	930	930	0	80	0.086	1.00	0.00	1.00	1.00	1.00	1.000
24/10 - HC Domitory - 2117	Single Fan CV	215	215	215	0	19	0.090	1.00	0.00	1.00	1.00	1.00	1.000
24/11a - Domitory - 2113	Single Fan CV	230	230	230	0	20	0.087	1.00	0.00	1.00	1.00	1.00	1.000
24/12 - Dayroom / Dining / TV	Single Fan CV	605	605	605	0	107	0.176	1.00	0.00	1.00	1.00	1.00	0.957
24/13 - Dorm - 3109	Single Fan CV	245	245	245	0	20	0.080	1.00	0.00	1.00	1.00	1.00	1.000
24/14 - Domitory - 2135/2136/2	Single Fan CV	1,010	1,010	1,010	0	80	0.079	1.00	0.00	1.00	1.00	1.00	1.000
24/15 - JANITOR	Single Fan CV	50	50	50	0	12	0.240	1.00	0.00	1.00	1.00	1.00	0.910 *
24/16 - Dorm - 3116	Single Fan CV	245	245	245	0	20	0.080	1.00	0.00	1.00	1.00	1.00	1.000
24/17 - CORRIDOR, DORMITO	Single Fan CV	640	640	640	0	147	0.230	1.00	0.00	1.00	1.00	1.00	0.910
24/18 - Domitory - 2134	Single Fan CV	240	240	240	0	19	0.080	1.00	0.00	1.00	1.00	1.00	1.000
24/19a - Domitory - 3104	Single Fan CV	255	255	255	0	20	0.078	1.00	0.00	1.00	1.00	1.00	1.000
24/20 - STAIR - ST03	Single Fan CV	235	235	235	0	16	0.068	1.00	0.00	1.00	1.00	1.00	1.000
24/11b - Domitory - 2111	Single Fan CV	220	220	220	0	20	0.089	1.00	0.00	1.00	1.00	1.00	1.000
24/11c - Storage	Single Fan CV	135	135	135	0	26	0.196	1.00	0.00	1.00	1.00	1.00	0.937
24/11d - storage	Single Fan CV	90	90	90	0	17	0.187	1.00	0.00	1.00	1.00	1.00	0.946
24/19b - Domitory - 3102	Single Fan CV	245	245	245	0	20	0.080	1.00	0.00	1.00	1.00	1.00	1.000
24/19c - Storage	Single Fan CV	120	120	120	0	13	0.110	1.00	0.00	1.00	1.00	1.00	1.000
24/19d - Storage	Single Fan CV	90	90	90	0	8	0.093	1.00	0.00	1.00	1.00	1.00	1.000

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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
08/03 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	34	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/04 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	34	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/05 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	34	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/06 - HOLDING CELL	Single Fan CV	120	120	120	0	20	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/07 - HOLDING CELL	Single Fan CV	120	120	120	0	20	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/08 - HOLDING CELL	Single Fan CV	120	120	120	0	20	0.170	1.00	0.00	1.00	1.00	1.00	1.000
08/09 - Detox Cell	Single Fan CV	120	120	120	0	15	0.128	1.00	0.00	1.00	1.00	1.00	1.000
08/10 - DETOX HOLDING CEI	Single Fan CV	220	220	220	0	35	0.159	1.00	0.00	1.00	1.00	1.00	1.000
08/11 - STOR	Single Fan CV	55	55	55	0	7	0.131	1.00	0.00	1.00	1.00	1.00	1.000
08/12 - AFIS/FINGER	Single Fan CV	77	77	77	0	18	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/13 - HEALTH SCREEN	Single Fan CV	91	91	91	0	31	0.338	1.00	0.00	1.00	1.00	1.00	0.914
08/14 - Female/Male	Single Fan CV	1,448	1,448	1,448	0	561	0.388	1.00	0.00	1.00	1.00	1.00	0.864
08/15 - PRE TRIAL SERVICES	Single Fan CV	275	275	275	0	93	0.337	1.00	0.00	1.00	1.00	1.00	0.914
08/16 - HEALTH EXAM	Single Fan CV	206	206	206	206	69	0.335	1.00	0.00	1.00	1.00	1.00	0.916
08/17 - HEALTH EXAM	Single Fan CV	206	206	206	206	69	0.335	1.00	0.00	1.00	1.00	1.00	0.916
08/18 - RR INMATE	Single Fan CV	10	10	10	0	2	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/19 - ADA RR INMATE	Single Fan CV	14	14	14	0	3	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/20 - MENTAL HEALTH SCF	Single Fan CV	119	119	119	119	61	0.507	1.00	0.00	1.00	1.00	1.00	0.744 *
08/21 - MENTAL HEALTH SCF	Single Fan CV	119	119	119	119	60	0.503	1.00	0.00	1.00	1.00	1.00	0.748
08/22 - MED STO	Single Fan CV	66	66	66	66	33	0.503	1.00	0.00	1.00	1.00	1.00	0.748
08/23 - RR STAFF	Single Fan CV	35	35	35	0	5	0.146	1.00	0.00	1.00	1.00	1.00	1.000
08/24 - INTERVIEW	Single Fan CV	61	61	61	0	15	0.253	1.00	0.00	1.00	1.00	1.00	0.998
08/25 - INTERVIEW	Single Fan CV	61	61	61	0	15	0.253	1.00	0.00	1.00	1.00	1.00	0.998
08/26 - INTERVIEW	Single Fan CV	60	60	60	0	15	0.257	1.00	0.00	1.00	1.00	1.00	0.995
08/27 - SAFETY VEST	Single Fan CV	20	20	20	0	5	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/28 - CORRIDOR	Single Fan CV	447	447	447	0	106	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/29 - RR STAFF	Single Fan CV	18	18	18	0	4	0.200	1.00	0.00	1.00	1.00	1.00	1.000
08/30 - RR STAFF	Single Fan CV	15	15	15	0	4	0.237	1.00	0.00	1.00	1.00	1.00	1.000
08/31 - Stair	Single Fan CV	200	200	200	0	16	0.080	1.00	0.00	1.00	1.00	1.00	1.000
08/33 - REC/BOND	Single Fan CV	681	681	681	0	180	0.264	1.00	0.00	1.00	1.00	1.00	0.987
08/40 - BODY SCAN	Single Fan CV	227	227	227	0	26	0.113	1.00	0.00	1.00	1.00	1.00	1.000
08/41 - Plumbing Chase	Single Fan CV	56	56	56	0	3	0.054	1.00	0.00	1.00	1.00	1.00	1.000
08/42 - Plumbing Chase	Single Fan CV	390	390	390	0	21	0.053	1.00	0.00	1.00	1.00	1.00	1.000

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Dataset Name: 201254-LOAD.TRC

ASHRAE Standard 62.1-2004-2010
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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AHU-I6		8,925	8,925	8,925	0	1,186							0.910
AHU-I6 - Mens Dorm (N Pod)		8,925	8,925	8,925	0	1,186							0.910
21/01 - DAYROOM/DINING/TV	Single Fan CV	2,510	2,510	2,510	0	285	0.114	1.00	0.00	1.00	1.00	1.00	0.981
21/02 - DORMITORY	Single Fan CV	458	458	458	0	40	0.087	1.00	0.00	1.00	1.00	1.00	1.000
21/05 - STAFF RESTROOM	Single Fan CV	33	33	33	0	5	0.143	1.00	0.00	1.00	1.00	1.00	0.951
21/07 - STORAGE	Single Fan CV	152	152	152	0	16	0.102	1.00	0.00	1.00	1.00	1.00	0.992
21/08 - Storage - 2309	Single Fan CV	70	70	70	0	8	0.112	1.00	0.00	1.00	1.00	1.00	0.983
21/09 - Domitory - 2311	Single Fan CV	236	236	236	0	20	0.086	1.00	0.00	1.00	1.00	1.00	1.000
21/10 - Dayroom / Showers	Single Fan CV	1,003	1,003	1,003	0	58	0.058	1.00	0.00	1.00	1.00	1.00	1.000
21/11 - Domitory - 2316/2317	Single Fan CV	458	458	458	0	40	0.087	1.00	0.00	1.00	1.00	1.00	1.000
21/12 - JC - 2318	Single Fan CV	91	91	91	0	10	0.112	1.00	0.00	1.00	1.00	1.00	0.983
21/14 - DORMITORY - 2321/2	Single Fan CV	506	506	506	0	40	0.079	1.00	0.00	1.00	1.00	1.00	1.000
21/15 - CORRIDOR / Inmate T	Single Fan CV	350	350	350	0	55	0.158	1.00	0.00	1.00	1.00	1.00	0.937
21/16 - Dormitory - 2325/2326	Single Fan CV	498	498	498	0	40	0.079	1.00	0.00	1.00	1.00	1.00	1.000
21/17 - JC - 2327	Single Fan CV	52	52	52	0	16	0.301	1.00	0.00	1.00	1.00	1.00	0.849 *
21/18 - Storage - 2328	Single Fan CV	67	67	67	0	15	0.224	1.00	0.00	1.00	1.00	1.00	0.871
21/19 - STAIR	Single Fan CV	226	226	226	0	17	0.073	1.00	0.00	1.00	1.00	1.00	1.000
21/20 - Stair	Single Fan CV	461	461	461	0	17	0.036	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I9		7,171	7,171	7,171	0	679							0.849
AHU-I9 - Female Dorm (SW Pod)		7,171	7,171	7,171	0	679							0.849
13/01 - OFFICER WORK STAT	Single Fan CV	470	470	470	0	25	0.053	1.00	0.00	1.00	1.00	1.00	1.000
13/02 - CORRIDORS	Single Fan CV	1,110	1,110	1,110	0	116	0.105	1.00	0.00	1.00	1.00	1.00	1.000
13/03 - MEDICAL Distribution -	Single Fan CV	125	125	125	0	16	0.130	1.00	0.00	1.00	1.00	1.00	1.000
13/04 - MED Distribution- 2303	Single Fan CV	105	105	105	0	15	0.147	1.00	0.00	1.00	1.00	1.00	1.000
13/05 - MULTIPURPOSE ROC	Single Fan CV	315	315	315	0	62	0.197	1.00	0.00	1.00	1.00	1.00	0.953
13/06 - Corridor	Single Fan CV	175	175	175	0	22	0.125	1.00	0.00	1.00	1.00	1.00	1.000
13/07 - Corridor	Single Fan CV	390	390	390	0	38	0.097	1.00	0.00	1.00	1.00	1.00	1.000
13/08 - Corridor / SV - 2120/21	Single Fan CV	145	145	145	0	18	0.122	1.00	0.00	1.00	1.00	1.00	1.000
13/09 - Visit - 2054/2056/2089/	Single Fan CV	540	540	540	0	229	0.425	1.00	0.00	1.00	1.00	1.00	0.725 *
13/10 - Medical Distribution - 2	Single Fan CV	145	145	145	0	15	0.104	1.00	0.00	1.00	1.00	1.00	1.000
13/11 - MULTIPURPOSE	Single Fan CV	485	485	485	0	62	0.129	1.00	0.00	1.00	1.00	1.00	1.000
13/12 - MULTIPURPOSE	Single Fan CV	630	630	630	0	85	0.135	1.00	0.00	1.00	1.00	1.00	1.000
13/13 - Medical Distribution - 2	Single Fan CV	150	150	150	0	15	0.101	1.00	0.00	1.00	1.00	1.00	1.000

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MD ENGINEERING
Texas Registered Engineering Firm No. F-7489

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER

MECHANICAL SCHEDULES

21913
07/18/2021
M009

FOR BID

ASHRAE Standard 62.1-2004-2010

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Ventilation Calculations for Heating Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
26/01 - SEP CELL	Single Fan CV	150	150	150	0	63	0.421	1.00	0.00	1.00	1.00	1.00	1.000
26/02 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/03 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/04 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/06 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/07 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/08 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/09 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/11 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/12 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/13 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/15 - HC DBL	Single Fan CV	138	138	138	0	71	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/16 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/17 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/18 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/19 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/20 - SEP CELL	Single Fan CV	130	130	130	0	67	0.514	1.00	0.00	1.00	1.00	1.00	0.921
26/21 - SEP CELL	Single Fan CV	123	123	123	0	63	0.514	1.00	0.00	1.00	1.00	1.00	0.921
22/01 - SEP CELL	Single Fan CV	125	125	125	0	58	0.460	1.00	0.00	1.00	1.00	1.00	0.975
22/02 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/03 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/04 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/06 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942
22/07 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942
22/08 - SEP CELL	Single Fan CV	124	124	124	0	61	0.493	1.00	0.00	1.00	1.00	1.00	0.942
22/09 - SEP CELL	Single Fan CV	125	125	125	0	61	0.491	1.00	0.00	1.00	1.00	1.00	0.944
22/11 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/12 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/13 - SEP CELL	Single Fan CV	119	119	119	0	58	0.483	1.00	0.00	1.00	1.00	1.00	0.951
22/15 - SEP CELL	Single Fan CV	130	130	130	0	65	0.499	1.00	0.00	1.00	1.00	1.00	0.935
22/16 - SEP CELL	Single Fan CV	120	120	120	0	61	0.512	1.00	0.00	1.00	1.00	1.00	0.923
22/17 - ESP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/18 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *

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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
08/44 - Safety Vest	Single Fan CV	244	244	244	0	4	0.016	1.00	0.00	1.00	1.00	1.00	1.000
08/45 - Corridor	Single Fan CV	389	389	389	0	92	0.237	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I1		6,915	6,915	6,915	716	1,737							0.744
AHU-I1 - Booking		6,915	6,915	6,915	716	1,737							0.744
06/01 - SECURE HOLDING	Single Fan CV	193	193	193	0	39	0.200	1.00	0.00	1.00	1.00	1.00	1.000
06/02 - SAFETY VEST	Single Fan CV	60	60	60	0	9	0.149	1.00	0.00	1.00	1.00	1.00	1.000
06/03 - INTOX	Single Fan CV	193	193	193	0	39	0.200	1.00	0.00	1.00	1.00	1.00	1.000
06/04 - HOLDING CELL - HC	Single Fan CV	160	160	160	0	27	0.170	1.00	0.00	1.00	1.00	1.00	1.000
06/05 - HOLDING CELL	Single Fan CV	87	87	87	0	9	0.103	1.00	0.00	1.00	1.00	1.00	1.000
06/06 - HOLDING CELL	Single Fan CV	87	87	87	0	9	0.103	1.00	0.00	1.00	1.00	1.00	1.000
06/07 - HOLDING CELL	Single Fan CV	87	87	87	0	9	0.103	1.00	0.00	1.00	1.00	1.00	1.000
06/08 - RR STAFF	Single Fan CV	15	15	15	0	4	0.236	1.00	0.00	1.00	1.00	1.00	1.000
06/10 - JANITOR	Single Fan CV	15	15	15	0	7	0.473	1.00	0.00	1.00	1.00	1.00	0.797
06/11 - RR INMATE	Single Fan CV	11	11	11	0	3	0.236	1.00	0.00	1.00	1.00	1.00	1.000
06/12 - RR INMATE	Single Fan CV	11	11	11	0	3	0.236	1.00	0.00	1.00	1.00	1.00	1.000
06/13 - ADA RR INMATE	Single Fan CV	17	17	17	0	4	0.236	1.00	0.00	1.00	1.00	1.00	1.000
06/14 - OPEN WATING,ARRE:	Single Fan CV	136	136	136	0	32	0.236	1.00	0.00	1.00	1.00	1.00	1.000
06/15 - OPEN WAITING ARRE	Single Fan CV	464	464	464	0	274	0.590	1.00	0.00	1.00	1.00	1.00	0.680 *
06/16 - OPEN WAITING NEW	Single Fan CV	162	162	162	0	36	0.220	1.00	0.00	1.00	1.00	1.00	1.000
06/17 - ARRESTING OFF WK	Single Fan CV	484	484	484	0	84	0.173	1.00	0.00	1.00	1.00	1.00	1.000
06/18 - Pre-Booking	Single Fan CV	66	66	66	0	25	0.376	1.00	0.00	1.00	1.00	1.00	0.894
06/19 - Print	Single Fan CV	67	67	67	0	5	0.072	1.00	0.00	1.00	1.00	1.00	1.000
06/20 - Storage	Single Fan CV	15	15	15	0	7	0.473	1.00	0.00	1.00	1.00	1.00	0.797
08/39 - Health Screen	Single Fan CV	94	94	94	0	31	0.334	1.00	0.00	1.00	1.00	1.00	0.935
AHU-I2		2,425	2,425	2,425	0	654							0.680
AHU-I2 - Pre-Booking		2,425	2,425	2,425	0	654							0.680
05/01 - SECURE GROUP HOL	Single Fan CV	265	265	265	0	52	0.196	1.00	0.00	1.00	1.00	1.00	1.000
05/02 - HOLDING CELL	Single Fan CV	140	140	140	0	21	0.152	1.00	0.00	1.00	1.00	1.00	1.000
05/03 - Plumbing Chase	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
05/04 - Transfer Coordinator	Single Fan CV	355	355	355	0	15	0.042	1.00	0.00	1.00	1.00	1.00	1.000
05/05 - Safety Vestibule	Single Fan CV	120	120	120	0	8	0.070	1.00	0.00	1.00	1.00	1.00	1.000
05/06 - SECURE GROUP HOL	Single Fan CV	265	265	265	0	46	0.175	1.00	0.00	1.00	1.00	1.00	1.000
05/07 - SECURE GROUP HOL	Single Fan CV	305	305	305	0	54	0.176	1.00	0.00	1.00	1.00	1.00	1.000

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Ventilation Calculations for Heating Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
22/19 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/20 - SEP CELL	Single Fan CV	118	118	118	0	61	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
22/21 - SEP CELL	Single Fan CV	111	111	111	0	58	0.519	1.00	0.00	1.00	1.00	1.00	0.916 *
23/13 - STAIR - ST02	Single Fan CV	220	220	220	0	20	0.090	1.00	0.00	1.00	1.00	1.00	1.000
23/06 - Safety Vestibule - 1219	Single Fan CV	164	164	164	0	10	0.059	1.00	0.00	1.00	1.00	1.00	1.000
23/15 - Stair	Single Fan CV	447	447	447	0	20	0.044	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I8		5,292	5,292	5,292	0	2,310							0.916
AHU-I8 - Dbl Cells - (SE Pod)		5,292	5,292	5,292	0	2,310							0.916
AHU-I7		0	0	0	0	0							0.000
AHU-I7 - Dayroom for Dbl Cell (SE)		0	0	0	0	0							0.000
24/01 - Dorm 2118	Single Fan CV	230	230	230	0	25	0.108	1.00	0.00	1.00	1.00	1.00	1.000
24/02 - JANITOR	Single Fan CV	50	50	50	0	15	0.300	1.00	0.00	1.00	1.00	1.00	0.850 *
24/03 - Dorm - 2125	Single Fan CV	230	230	230	0	25	0.108	1.00	0.00	1.00	1.00	1.00	1.000
24/04 - DAYROOM/DINING/TV	Single Fan CV	2,460	2,460	2,460	0	467	0.190	1.00	0.00	1.00	1.00	1.00	0.943
24/05 - STAFF RESTROOM	Single Fan CV	155	155	155	0	5	0.034	1.00	0.00	1.00	1.00	1.00	1.000
24/09 - Dormitory - 2119/2121/:	Single Fan CV	930	930	930	0	100	0.108	1.00	0.00	1.00	1.00	1.00	1.000
24/10 - HC Domitory - 2117	Single Fan CV	215	215	215	0	24	0.112	1.00	0.00	1.00	1.00	1.00	1.000
24/11a - Domitory - 2113	Single Fan CV	230	230	230	0	25	0.108	1.00	0.00	1.00	1.00	1.00	1.000
24/12 - Dayroom / Dining / TV -	Single Fan CV	605	605	605	0	107	0.176	1.00	0.00	1.00	1.00	1.00	0.957
24/13 - Dorm - 3109	Single Fan CV	245	245	245	0	24	0.100	1.00	0.00	1.00	1.00	1.00	1.000
24/14 - Domitory - 2135/2136/2	Single Fan CV	1,010	1,010	1,010	0	100	0.099	1.00	0.00	1.00	1.00	1.00	1.000
24/15 - JANITOR	Single Fan CV	50	50	50	0	15	0.300	1.00	0.00	1.00	1.00	1.00	0.850 *
24/16 - Dorm - 3116	Single Fan CV	245	245	245	0	24	0.100	1.00	0.00	1.00	1.00	1.00	1.000
24/17 - CORRIDOR, DORMIT(	Single Fan CV	640	640	640	0	147	0.230	1.00	0.00	1.00	1.00	1.00	0.903
24/18 - Domitory - 2134	Single Fan CV	240	240	240	0	24	0.101	1.00	0.00	1.00	1.00	1.00	1.000
24/19a - Domitory - 3104	Single Fan CV	255	255	255	0	25	0.098	1.00	0.00	1.00	1.00	1.00	1.000
24/20 - STAIR - ST03	Single Fan CV	235	235	235	0	20	0.085	1.00	0.00	1.00	1.00	1.00	1.000
24/11b - Domitory - 2111	Single Fan CV	220	220	220	0	24	0.111	1.00	0.00	1.00	1.00	1.00	1.000
24/11c - Storage	Single Fan CV	135	135	135	0	33	0.244	1.00	0.00	1.00	1.00	1.00	0.888
24/11d - storage	Single Fan CV	90	90	90	0	21	0.233	1.00	0.00	1.00	1.00	1.00	0.900
24/19b - Domitory - 3102	Single Fan CV	245	245	245	0	24	0.100	1.00	0.00	1.00	1.00	1.00	1.000
24/19c - Storage	Single Fan CV	120	120	120	0	17	0.138	1.00	0.00	1.00	1.00	1.00	0.995
24/19d - Storage	Single Fan CV	90	90	90	0	10	0.117	1.00	0.00	1.00	1.00	1.00	1.000

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Ventilation Calculations for Cooling Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-clg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
05/08 - HOLDING CELL	Single Fan CV	125	125	125	0	21	0.166	1.00	0.00	1.00	1.00	1.00	1.000
05/09 - HOLDING CELL	Single Fan CV	125	125	125	0	21	0.166	1.00	0.00	1.00	1.00	1.00	1.000
05/10 - HC HOLDING CELL	Single Fan CV	155	155	155	0	27	0.174	1.00	0.00	1.00	1.00	1.00	1.000
05/11 - HOLDING CELL	Single Fan CV	135	135	135	0	21	0.156	1.00	0.00	1.00	1.00	1.00	1.000
05/12 - OPEN WAITING TRAN	Single Fan CV	2,745	2,745	2,745	0	1,452	0.529	1.00	0.00	1.00	1.00	1.00	0.811 *
05/13 - Female Changing	Single Fan CV	150	150	150	0	14	0.092	1.00	0.00	1.00	1.00	1.00	1.000
05/14 - Janitor	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
05/15 - Male Changing	Single Fan CV	150	150	150	0	14	0.094	1.00	0.00	1.00	1.00	1.00	1.000
05/16 - Plumbing Chase	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
06/09 - SAFETY VESTIBLUE	Single Fan CV	175	175	175	0	3	0.017	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I3		5,210	5,210	5,210	0	1,769							0.811
AHU-I3 - Transfer Area		5,210	5,210	5,210	0	1,769							0.811
04/01 - PROPERTY STORAGI	Single Fan CV	11,808	11,808	11,808	0	5,904	0.500	1.00	0.00	1.00	1.00	1.00	0.998 *
04/02 - JAIL CLOTHING STOF	Single Fan CV	990	990	990	0	495	0.500	1.00	0.00	1.00	1.00	1.00	0.998 *
04/03 - JANITOR	Single Fan CV	40	40	40	0	5	0.135	1.00	0.00	1.00	1.00	1.00	1.000
04/04 - Val Prop Storage	Single Fan CV	468	468	468	0	234	0.500	1.00	0.00	1.00	1.00	1.00	0.998 *
04/05 - Laundry	Single Fan CV	40	40	40	0	8	0.195	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I4		13,346	13,346	13,346	0	6,646							0.998
AHU-I4 - Prop Stor - (50% OSA)		13,346	13,346	13,346	0	6,646							0.998
VRF-02/01 - 02		0	0	0	0	0							0.000
VRF-02/04 (assumed 2T Future I7		0	0	0	0	0							0.000
VRF-02/05		0	0	0	0	0							0.000
VRF-02/03 (assumed 2T Future I7		0	0	0	0	0							0.000
CU-02		0	0	0	0	0							0.000
VRF-03/01 - (calc 732)		0	0	0	0	0							0.000
CU-03		0	0	0	0	0							0.000
VRF-04/01		0	0	0	0	0							0.000
VRF-04/02		0	0	0	0	0							0.000
CU-04		0	0	0	0	0							0.000

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MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
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BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

MECHANICAL SCHEDULES

21913
07/13/2021
M010

FOR BID

ASHRAE Standard 62.1-2004-2010

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Ventilation Calculations for Heating Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
08/03 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	43	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/04 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	43	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/05 - SECURE HOLDING CI	Single Fan CV	200	200	200	0	43	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/06 - HOLDING CELL	Single Fan CV	120	120	120	0	26	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/07 - HOLDING CELL	Single Fan CV	120	120	120	0	26	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/08 - HOLDING CELL	Single Fan CV	120	120	120	0	26	0.213	1.00	0.00	1.00	1.00	1.00	1.000
08/09 - Detox Cell	Single Fan CV	120	120	120	0	19	0.160	1.00	0.00	1.00	1.00	1.00	1.000
08/10 - DETOX HOLDING CEL	Single Fan CV	220	220	220	0	44	0.198	1.00	0.00	1.00	1.00	1.00	1.000
08/11 - STOR	Single Fan CV	55	55	55	0	9	0.163	1.00	0.00	1.00	1.00	1.00	1.000
08/12 - AFIS/FINGER	Single Fan CV	77	77	77	0	23	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/13 - HEALTH SCREEN	Single Fan CV	91	91	91	0	39	0.422	1.00	0.00	1.00	1.00	1.00	0.829
08/14 - Female/Male	Single Fan CV	1,448	1,448	1,448	0	701	0.484	1.00	0.00	1.00	1.00	1.00	0.767
08/15 - PRE TRIAL SERVICES	Single Fan CV	275	275	275	0	116	0.421	1.00	0.00	1.00	1.00	1.00	0.830
08/16 - HEALTH EXAM	Single Fan CV	206	206	206	206	86	0.419	1.00	0.00	1.00	1.00	1.00	0.832
08/17 - HEALTH EXAM	Single Fan CV	206	206	206	206	86	0.419	1.00	0.00	1.00	1.00	1.00	0.832
08/18 - RR INMATE	Single Fan CV	10	10	10	0	3	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/19 - ADA RR INMATE	Single Fan CV	14	14	14	0	4	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/20 - MENTAL HEALTH SCF	Single Fan CV	119	119	119	119	76	0.634	1.00	0.00	1.00	1.00	1.00	0.617 *
08/21 - MENTAL HEALTH SCF	Single Fan CV	119	119	119	119	75	0.628	1.00	0.00	1.00	1.00	1.00	0.623
08/22 - MED STO	Single Fan CV	66	66	66	66	41	0.628	1.00	0.00	1.00	1.00	1.00	0.623
08/23 - RR STAFF	Single Fan CV	35	35	35	0	6	0.183	1.00	0.00	1.00	1.00	1.00	1.000
08/24 - INTERVIEW	Single Fan CV	61	61	61	0	19	0.316	1.00	0.00	1.00	1.00	1.00	0.935
08/25 - INTERVIEW	Single Fan CV	61	61	61	0	19	0.316	1.00	0.00	1.00	1.00	1.00	0.935
08/26 - INTERVIEW	Single Fan CV	60	60	60	0	19	0.321	1.00	0.00	1.00	1.00	1.00	0.931
08/27 - SAFETY VEST	Single Fan CV	20	20	20	0	6	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/28 - CORRIDOR	Single Fan CV	447	447	447	0	132	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/29 - RR STAFF	Single Fan CV	18	18	18	0	5	0.249	1.00	0.00	1.00	1.00	1.00	1.000
08/30 - RR STAFF	Single Fan CV	15	15	15	0	5	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/31 - Stair	Single Fan CV	200	200	200	0	20	0.099	1.00	0.00	1.00	1.00	1.00	1.000
08/33 - REC/BOND	Single Fan CV	681	681	681	0	225	0.330	1.00	0.00	1.00	1.00	1.00	0.921
08/40 - BODY SCAN	Single Fan CV	227	227	227	0	32	0.141	1.00	0.00	1.00	1.00	1.00	1.000
08/41 - Plumbing Chase	Single Fan CV	56	56	56	0	4	0.067	1.00	0.00	1.00	1.00	1.00	1.000
08/42 - Plumbing Chase	Single Fan CV	390	390	390	0	26	0.066	1.00	0.00	1.00	1.00	1.00	1.000

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Ventilation Calculations for Heating Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AHU-I6		8,925	8,925	8,925	0	1,303							0.850
AHU-I6 - Mens Dorm (N Pod)		8,925	8,925	8,925	0	1,303							0.850
21/01 - DAYROOM/DINING/TV	Single Fan CV	2,510	2,510	2,510	0	285	0.114	1.00	0.00	1.00	1.00	1.00	0.981
21/02 - DORMITORY	Single Fan CV	458	458	458	0	50	0.109	1.00	0.00	1.00	1.00	1.00	0.986
21/05 - STAFF RESTROOM	Single Fan CV	33	33	33	0	6	0.179	1.00	0.00	1.00	1.00	1.00	0.915
21/07 - STORAGE	Single Fan CV	152	152	152	0	19	0.128	1.00	0.00	1.00	1.00	1.00	0.967
21/08 - Storage - 2309	Single Fan CV	70	70	70	0	10	0.140	1.00	0.00	1.00	1.00	1.00	0.955
21/09 - Domitory - 2311	Single Fan CV	236	236	236	0	25	0.107	1.00	0.00	1.00	1.00	1.00	0.988
21/10 - Dayroom / Showers	Single Fan CV	1,003	1,003	1,003	0	72	0.072	1.00	0.00	1.00	1.00	1.00	1.000
21/11 - Domitory - 2316/2317	Single Fan CV	458	458	458	0	50	0.109	1.00	0.00	1.00	1.00	1.00	0.986
21/12 - JC - 2318	Single Fan CV	91	91	91	0	13	0.140	1.00	0.00	1.00	1.00	1.00	0.955
21/14 - DORMITORY - 2321/2:	Single Fan CV	506	506	506	0	50	0.098	1.00	0.00	1.00	1.00	1.00	0.996
21/15 - CORRIDOR / Inmate T	Single Fan CV	350	350	350	0	69	0.197	1.00	0.00	1.00	1.00	1.00	0.898
21/16 - Dormitory - 2325/2326	Single Fan CV	498	498	498	0	49	0.099	1.00	0.00	1.00	1.00	1.00	0.996
21/17 - JC - 2327	Single Fan CV	52	52	52	0	19	0.376	1.00	0.00	1.00	1.00	1.00	0.774 *
21/18 - Storage - 2328	Single Fan CV	67	67	67	0	19	0.280	1.00	0.00	1.00	1.00	1.00	0.814
21/19 - STAIR	Single Fan CV	226	226	226	0	21	0.091	1.00	0.00	1.00	1.00	1.00	1.000
21/20 - Stair	Single Fan CV	461	461	461	0	21	0.045	1.00	0.00	1.00	1.00	1.00	1.000
AHU-I9		7,171	7,171	7,171	0	778							0.774
AHU-I9 - Female Dorm (SW Pod)		7,171	7,171	7,171	0	778							0.774
13/01 - OFFICER WORK STAT	Single Fan CV	470	470	470	0	31	0.066	1.00	0.00	1.00	1.00	1.00	1.000
13/02 - CORRIDORS	Single Fan CV	1,110	1,110	1,110	0	145	0.131	1.00	0.00	1.00	1.00	1.00	1.000
13/03 - MEDICAL Distribution -	Single Fan CV	125	125	125	0	20	0.163	1.00	0.00	1.00	1.00	1.00	0.987
13/04 - MED Distribution- 2303	Single Fan CV	105	105	105	0	19	0.183	1.00	0.00	1.00	1.00	1.00	0.967
13/05 - MULTIPURPOSE ROO	Single Fan CV	315	315	315	0	78	0.246	1.00	0.00	1.00	1.00	1.00	0.904
13/06 - Corridor	Single Fan CV	175	175	175	0	27	0.156	1.00	0.00	1.00	1.00	1.00	0.994
13/07 - Corridor	Single Fan CV	390	390	390	0	47	0.121	1.00	0.00	1.00	1.00	1.00	1.000
13/08 - Corridor / SV - 2120/21	Single Fan CV	145	145	145	0	22	0.153	1.00	0.00	1.00	1.00	1.00	0.998
13/09 - Visit - 2054/2056/2089/	Single Fan CV	540	540	540	0	287	0.531	1.00	0.00	1.00	1.00	1.00	0.619 *
13/10 - Medical Distribution - 2	Single Fan CV	145	145	145	0	19	0.130	1.00	0.00	1.00	1.00	1.00	1.000
13/11 - MULTIPURPOSE	Single Fan CV	485	485	485	0	78	0.161	1.00	0.00	1.00	1.00	1.00	0.989
13/12 - MULTIPURPOSE	Single Fan CV	630	630	630	0	106	0.168	1.00	0.00	1.00	1.00	1.00	0.982
13/13 - Medical Distribution - 2:	Single Fan CV	150	150	150	0	19	0.126	1.00	0.00	1.00	1.00	1.00	1.000

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System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
08/44 - Safety Vest	Single Fan CV	244	244	244	0	5	0.020	1.00	0.00	1.00	1.00	1.00	1.000
08/45 - Corridor	Single Fan CV	389	389	389	0	115	0.296	1.00	0.00	1.00	1.00	1.00	0.955
AHU-I1		6,915	6,915	6,915	716	2,171							0.617
AHU-I1 - Booking		6,915	6,915	6,915	716	2,171							0.617
06/01 - SECURE HOLDING	Single Fan CV	193	193	193	0	48	0.250	1.00	0.00	1.00	1.00	1.00	1.000
06/02 - SAFETY VEST	Single Fan CV	60	60	60	0	11	0.186	1.00	0.00	1.00	1.00	1.00	1.000
06/03 - INTOX	Single Fan CV	193	193	193	0	48	0.250	1.00	0.00	1.00	1.00	1.00	1.000
06/04 - HOLDING CELL - HC	Single Fan CV	160	160	160	0	34	0.213	1.00	0.00	1.00	1.00	1.00	1.000
06/05 - HOLDING CELL	Single Fan CV	87	87	87	0	11	0.128	1.00	0.00	1.00	1.00	1.00	1.000
06/06 - HOLDING CELL	Single Fan CV	87	87	87	0	11	0.128	1.00	0.00	1.00	1.00	1.00	1.000
06/07 - HOLDING CELL	Single Fan CV	87	87	87	0	11	0.128	1.00	0.00	1.00	1.00	1.00	1.000
06/08 - RR STAFF	Single Fan CV	15	15	15	0	5	0.295	1.00	0.00	1.00	1.00	1.00	0.974
06/10 - JANITOR	Single Fan CV	15	15	15	0	9	0.591	1.00	0.00	1.00	1.00	1.00	0.679
06/11 - RR INMATE	Single Fan CV	11	11	11	0	3	0.295	1.00	0.00	1.00	1.00	1.00	0.974
06/12 - RR INMATE	Single Fan CV	11	11	11	0	3	0.295	1.00	0.00	1.00	1.00	1.00	0.974
06/13 - ADA RR INMATE	Single Fan CV	17	17	17	0	5	0.295	1.00	0.00	1.00	1.00	1.00	0.974
06/14 - OPEN WATING,ARRE:	Single Fan CV	136	136	136	0	40	0.295	1.00	0.00	1.00	1.00	1.00	0.974
06/15 - OPEN WAITING ARRE	Single Fan CV	464	464	464	0	342	0.737	1.00	0.00	1.00	1.00	1.00	0.532 *
06/16 - OPEN WAITING NEW /	Single Fan CV	162	162	162	0	45	0.275	1.00	0.00	1.00	1.00	1.00	0.995
06/17 - ARRESTING OFF WK /	Single Fan CV	484	484	484	0	105	0.216	1.00	0.00	1.00	1.00	1.00	1.000
06/18 - Pre-Booking	Single Fan CV	66	66	66	0	31	0.470	1.00	0.00	1.00	1.00	1.00	0.800
06/19 - Print	Single Fan CV	67	67	67	0	6	0.089	1.00	0.00	1.00	1.00	1.00	1.000
06/20 - Storage	Single Fan CV	15	15	15	0	9	0.591	1.00	0.00	1.00	1.00	1.00	0.679
08/39 - Health Screen	Single Fan CV	94	94	94	0	39	0.418	1.00	0.00	1.00	1.00	1.00	0.852
AHU-I2		2,425	2,425	2,425	0	817							0.532
AHU-I2 - Pre-Booking		2,425	2,425	2,425	0	817							0.532
05/01 - SECURE GROUP HOL	Single Fan CV	265	265	265	0	65	0.245	1.00	0.00	1.00	1.00	1.00	1.000
05/02 - HOLDING CELL	Single Fan CV	140	140	140	0	27	0.190	1.00	0.00	1.00	1.00	1.00	1.000
05/03 - Plumbing Chase	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
05/04 - Transfer Coordinator	Single Fan CV	355	355	355	0	19	0.052	1.00	0.00	1.00	1.00	1.00	1.000
05/05 - Safety Vestibule	Single Fan CV	120	120	120	0	10	0.088	1.00	0.00	1.00	1.00	1.00	1.000
05/06 - SECURE GROUP HOL	Single Fan CV	265	265	265	0	58	0.219	1.00	0.00	1.00	1.00	1.00	1.000
05/07 - SECURE GROUP HOL	Single Fan CV	305	305	305	0	67	0.220	1.00	0.00	1.00	1.00	1.00	1.000

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System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz
Alternative 1													
AHU-I0		4,785	4,785	4,785	0	899							0.619
AHU-I0 - Guard & Support Area		4,785	4,785	4,785	0	899							0.619
VRF-01/01 - (Calc 1396)		0	0	0	0	0							0.000
VRF-01/02 - (Calc 449)		0	0	0	0	0							0.000
VRF-01/03 - (calc 1239)		0	0	0	0	0							0.000
VRF-01/04 - (calc 548)		0	0	0	0	0							0.000
VRF-01/05 - (calc 1586)		0	0	0	0	0							0.000
VRF-01/06 - (calc 987)		0	0	0	0	0							0.000
VRF-01/07 - (calc 826)		0	0	0	0	0							0.000
VRF-01/08 - (calc 721)		0	0	0	0	0							0.000
VRF-01/09 - (calc 556)		0	0	0	0	0							0.000
CU-01		0	0	0	0	0							0.000
16/01 - MECH / ELC - 2004	Single Fan CV	129	129	129	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
16/01B - MECH / ELC - 2004	Single Fan CV	15	15	15	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-01		144	144	144	0	0							1.000
10/01 - Mechanical	Single Fan CV	15	15	15	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-02		15	15	15	0	0							1.000
15/01 - Vehicle Sallyport	Single Fan CV	967	967	967	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-03 & 04 & 05		967	967	967	0	0							1.000
17/01 - Mechanical	Single Fan CV	20	20	20	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-06		20	20	20	0	0							1.000
18/01 - Future Finishout	Single Fan CV	40	40	40	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-07 & 08		40	40	40	0	0							1.000
16/01A - BOILER RM	Single Fan CV	7	7	7	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-09		7	7	7	0	0							1.000
28/01 - Alternate 1 - shell	Single Fan CV	105	105	105	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000
UH-10 & 11 & 12		105	105	105	0	0							1.000
Heat Only		1,298	1,298	1,298	0	0							1.000
01/01 - Court Room	Single Fan CV	720	720	720	0	74	0.103	1.00	0.00	1.00	1.00	1.00	1.000 *
AHU-I5		720	720	720	0	74							1.000
AHU-I5 - Courtroom (IONIZER)		720	720	720	0	74							1.000
08/01 - ADA RR INMATE	Single Fan CV	15	15	15	0	5	0.296	1.00	0.00	1.00	1.00	1.00	0.955
08/02 - RR INMATE	Single Fan CV	10	10	10	0	3	0.296	1.00	0.00	1.00	1.00	1.00	0.955

Project Name: 201254 Collin Co ADF Booking Add
Dataset Name: 201254-LOAD.TRC

TRACE® 700 v6.3.5 calculated at 01:01 PM on 04/07/2021
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 20 of 23

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER

MD ENGINEERING

MECHANICAL SCHEDULES

21913

07/13/2021

M011

FOR BID

ASHRAE Standard 62.1-2004-2010

By MD ENGINEERING

Ventilation Calculations for Heating Design

System Zone Room	Box Type	Vpz cfm	Vfan cfm	Vdz cfm	Vpz-min cfm	Voz-htg cfm	Zd	Ep	Er	Fa	Fb	Fc	Evz	
Alternative 1														
05/08 - HOLDING CELL	Single Fan CV	125	125	125	0	26	0.207	1.00	0.00	1.00	1.00	1.00	1.000	
05/09 - HOLDING CELL	Single Fan CV	125	125	125	0	26	0.207	1.00	0.00	1.00	1.00	1.00	1.000	
05/10 - HC HOLDING CELL	Single Fan CV	155	155	155	0	34	0.217	1.00	0.00	1.00	1.00	1.00	1.000	
05/11 - HOLDING CELL	Single Fan CV	135	135	135	0	26	0.194	1.00	0.00	1.00	1.00	1.00	1.000	
05/12 - OPEN WAITING TRAN	Single Fan CV	2,745	2,745	2,745	0	1,815	0.661	1.00	0.00	1.00	1.00	1.00	0.678	*
05/13 - Female Changing	Single Fan CV	150	150	150	0	17	0.115	1.00	0.00	1.00	1.00	1.00	1.000	
05/14 - Janitor	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000	
05/15 - Male Changing	Single Fan CV	150	150	150	0	18	0.118	1.00	0.00	1.00	1.00	1.00	1.000	
05/16 - Plumbing Chase	Single Fan CV	0	0	0	0	0	0.000	1.00	0.00	1.00	1.00	1.00	1.000	
06/09 - SAFETY VESTIBLUE	Single Fan CV	175	175	175	0	4	0.021	1.00	0.00	1.00	1.00	1.00	1.000	
AHU-I3		5,210	5,210	5,210	0	2,211							0.678	
AHU-I3 - Transfer Area		5,210	5,210	5,210	0	2,211							0.678	
04/01 - PROPERTY STORAGE	Single Fan CV	11,808	11,808	11,808	0	5,904	0.500	1.00	0.00	1.00	1.00	1.00	0.998	*
04/02 - JAIL CLOTHING STOR	Single Fan CV	990	990	990	0	495	0.500	1.00	0.00	1.00	1.00	1.00	0.998	*
04/03 - JANITOR	Single Fan CV	40	40	40	0	7	0.169	1.00	0.00	1.00	1.00	1.00	1.000	
04/04 - Val Prop Storage	Single Fan CV	468	468	468	0	234	0.500	1.00	0.00	1.00	1.00	1.00	0.998	*
04/05 - Laundry	Single Fan CV	40	40	40	0	10	0.244	1.00	0.00	1.00	1.00	1.00	1.000	
AHU-I4		13,346	13,346	13,346	0	6,650							0.998	
AHU-I4 - Prop Stor - (50% OSA)		13,346	13,346	13,346	0	6,650							0.998	
VRF-02/01 - 02		0	0	0	0	0							0.000	
VRF-02/04 (assumed 2T Future I1		0	0	0	0	0							0.000	
VRF-02/05		0	0	0	0	0							0.000	
VRF-02/03 (assumed 2T Future I1		0	0	0	0	0							0.000	
CU-02		0	0	0	0	0							0.000	
VRF-03/01 - (calc 732)		0	0	0	0	0							0.000	
CU-03		0	0	0	0	0							0.000	
VRF-04/01		0	0	0	0	0							0.000	
VRF-04/02		0	0	0	0	0							0.000	
CU-04		0	0	0	0	0							0.000	

Project Name: 201254 Collin Co ADF Booking Add
Dataset Name: 201254-LOAD.TRC

TRACE® 700 v6.3.5 calculated at 01:01 PM on 04/07/2021
Alternative - 1 ASHRAE Standard 62.1-2004/2007 Report Page 23 of 23

MD ENGINEERING
Texas Registered Engineering Firm No. F-7499
1255 West 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengrus@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

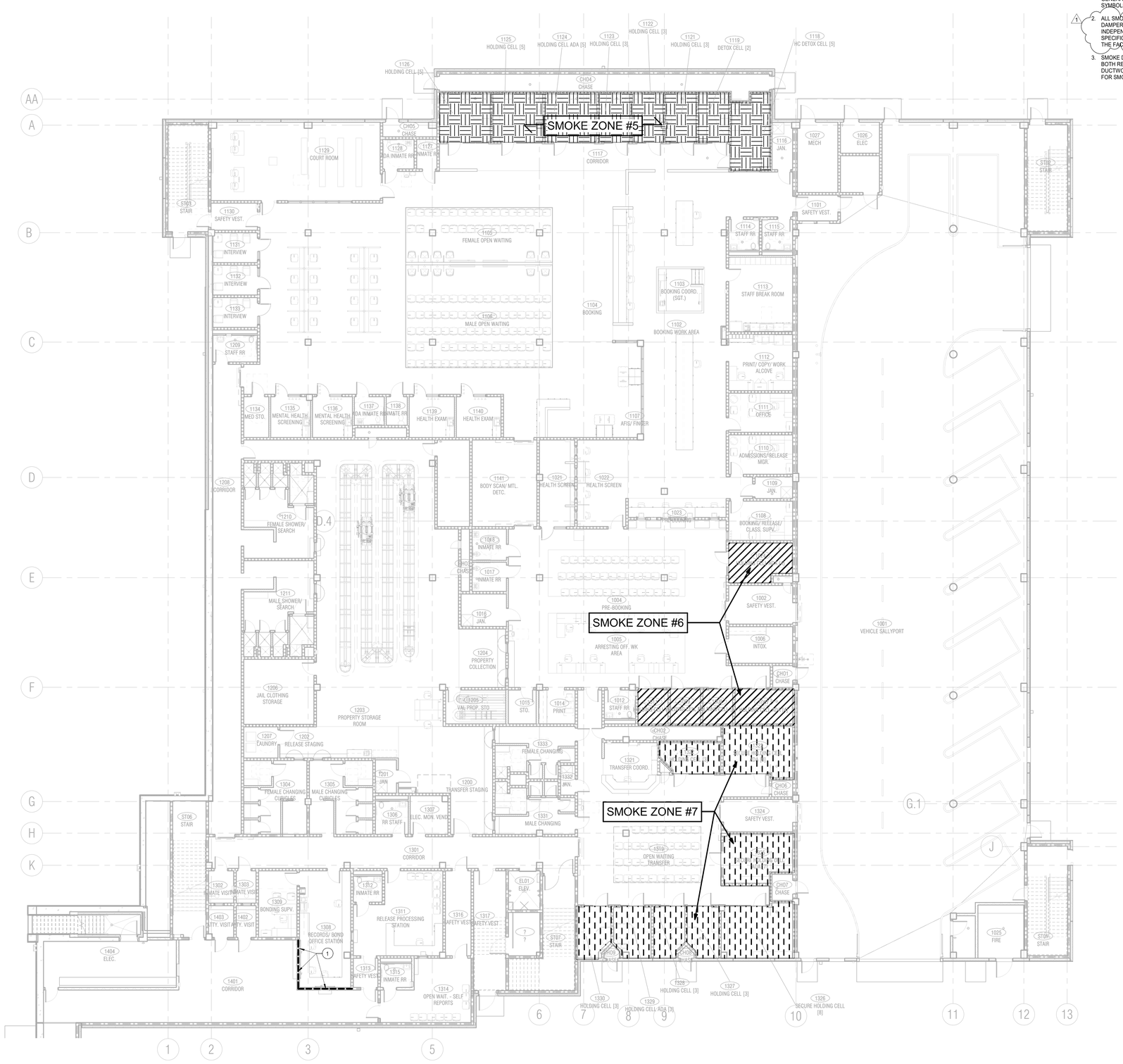
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

1

MECHANICAL SCHEDULES

21913
07/16/2021
M012

FOR BID



GENERAL NOTES:

1. REFER TO MP000 FOR ADDITIONAL HVAC & GENERAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND.
2. ALL SMOKE ZONES AND ASSOCIATED MOTORIZED DAMPERS IN EACH ZONE SHALL OPERATE INDEPENDENTLY OF EACH OTHER AS DESCRIBED IN SPECIFICATIONS. DAMPER SHALL BE CONNECTED TO THE FACP.
3. SMOKE DETECTORS SHALL BE PROVIDED IN BOTH RETURN AIR AND EXHAUST AIR DUCTWORK. REFER TO MECHANICAL DETAILS FOR SMOKE DETECTOR LAYOUT.

SMOKE DETECTION NOTES:

1. SMOKE DETECTION AND ALARM WILL BE ACCOMPLISHED IN THE SEVEN SMOKE EVACUATION ZONES SHOWN UTILIZING THE INTELLIGENT ADDRESSABLE FIRE CONTROL SYSTEM OF THE BUILDING. REFER TO SPECS SECTION 283110.
2. THE FIRE ALARM CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE SYSTEM DESIGN.
3. THE DESIGN SUBMITTAL SHALL INCLUDE ONE LINE, PLAN LAYOUT, CUT SHEETS, PERFORMANCE CRITERIA AND APPLICABLE CALCULATIONS.
4. THE ADDRESSABLE SYSTEM SHALL DETECT SMOKE AND INITIATE THE SMOKE REMOVAL SYSTEM WITHIN 45 SECONDS. EACH SMOKE DETECTION ZONE SHALL INDEPENDENTLY DETECT SMOKE AND ANNUNCIATE ALARM.
5. THE DETECTION SYSTEM SHALL INCORPORATE THE FOLLOWING DETECTION METHODS:
   A. ENCLOSED CELL/AREA PROTECTION.
   B. RETURN AIR DUCT PROTECTION FOR THE AHU'S IN THE ZONE. REFER TO HVAC PLANS.
6. THE SYSTEM SHALL BE PROGRAMMED FOR ZONE. AUTOMATIC RESET WHEN SMOKE DETECTOR ALARMS CLEAR.
7. THE SYSTEM SHALL BE FULLY INSPECTED AND TESTED FOR COMPLIANCE WITH THE TEXAS COMMISSION ON JAIL STANDARDS (TCJS). THE CONTRACTOR SHALL MAKE ANY NEEDED FIELD CHANGES OR IMPROVEMENTS TO SATISFACTORILY PASS TCJS INSPECTION AND TESTS. IF WHILE PRE-TESTING AND THE SYSTEM DOES NOT PASS TCJS REQUIEREMENTS, ANY ADDITIONAL PRODUCTS / ALARMS / HEADS ADDED TO PASS TESTING SHALL BE PRE-APPROVED BY THE EOR AND THE COST FOR THE ADDITIONAL WORK SHALL NOT BE PASSED ONTO THE OWNER AND SHALL BE ABSORBED BY THE CONTRACTOR.

Project: Collin Co ADF Booking Add
Designation: SSF-05 / SEF-05
Serves: Zone 5
System AHU: AHU-I-1

Design ACH: 30

Smoke Testing Candle Count *:
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft)2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
1118	HC DETOX CELL	164	10	1,640	740	820
1119	DETOX CELL	88	10	880	400	440
1121	HOLDING CELL	88	10	880	400	440
1122	HOLDING CELL	88	10	880	400	440
1123	HOLDING CELL	88	10	880	400	440
1124	SECURE HOLDING CELL	147	10	1,470	670	740
1125	SECURE HOLDING CELL	147	10	1,470	670	740
1126	SECURE HOLDING CELL	147	10	1,470	670	740

SUPPLY (CFM)	**4,350**
EXHAUST (CFM)	**4,800**

Project: Collin Co ADF Booking Add
Designation: SSF-06 / SEF-06
Serves: Zone 6
System AHU: AHU-I-2

Design ACH: 30

Smoke Testing Candle Count *:
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
1007	HOLDING CELL ADA	117	10	1,170	540	590
1008	HOLDING CELL	62	10	620	280	310
1009	HOLDING CELL	62	10	620	280	310
1011	HOLDING CELL	62	10	620	280	310
1024	SECURE HOLDING	142	10	1,420	640	710

SUPPLY (CFM)	**2,020**
EXHAUST (CFM)	**2,230**

Project: Collin Co ADF Booking Add
Designation: SSF-07 / SEF-07
Serves: Zone 7
System AHU: AHU-I-3

Design ACH: 30

Smoke Testing Candle Count *:
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
1322	HOLDING CELL	103	10	1,030	470	520
1323	SECURE HOLDING CELL ADA	200	10	2,000	900	1000
1325	SECURE HOLDING CELL ADA	189	10	1,890	860	950
1326	SECURE HOLDING CELL	227	10	2,270	1030	1140
1327	HOLDING CELL	91	10	910	420	460
1328	HOLDING CELL	91	10	910	420	460
1329	HOLDING CELL ADA	111	10	1,110	510	560
1330	HOLDING CELL	98	10	980	450	490

SUPPLY (CFM)	**5,060**
EXHAUST (CFM)	**5,580**

RESPONSIBILITY MATRIX

DEVICE	SUPPLIED BY	INSTALLED BY	WIRING AND CONTROLS	WIRING BY ELECTRICAL
HVAC UNITS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
FANS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
TEMP AND MISC. SENSORS	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO SENSORS	N/A
CURRENT SENSING RELAY	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO CSR	N/A
SMOKE DETECTORS	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM PANEL TO DEVICE

FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL SMOKE CONTROL PANEL AND WIRING TO STARTER FOR CONTROL OF SMOKE PURGE FANS

1 LOWER LEVEL OVERALL PLAN - SMOKE ZONES
3/32" = 1'-0"

GRAPHIC SCALE
3/32" = 1'-0"
0 3' 6' 12' 24'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengrga@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2745
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaftaTech (972) 633-5850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL OVERALL PLAN - SMOKE ZONES

FOR BID

21913
07/13/2021
M120

ASPIRATING SMOKE DETECTION SYSTEM NARRATIVE:

AREAS IDENTIFIED WITHIN DASHED LINES ARE SERVED BY AN ASPIRATING SMOKE DETECTION SYSTEM. SYSTEM SHALL MONITOR IDENTIFIED ZONES THROUGH SAMPLING POINTS CONNECTED TO A CENTRAL ASPIRATING SMOKE DETECTOR WITHIN STORAGE OR JANITOR ROOM. DETECTOR SHALL BE INTERLOCKED TO SMOKE CONTROL PANEL LOCATED IN CLUSTER CONTROL STATION.

EACH ROOM IN THE IDENTIFIED ZONES SHALL HAVE TAMPER PROOF SAMPLING POINTS CAPABLE OF PROVIDING DETECTION OF SMOKE WITHIN 45 SECONDS PER SPECIFICATIONS. PROVIDE COUNTERSUNK TORX HEAD SECURITY SCREW FOR TAMPER PROOF SAMPLING POINTS. PIPING FROM SAMPLING POINTS SHALL BE ROUTED IN BULKHEAD OR ABOVE PLANK CEILING TO ASPIRATING SMOKE DETECTOR. REFER TO ELECTRICAL DRAWINGS E311 AND E321 FOR DETECTOR LOCATIONS. DETECTORS SHALL COMMUNICATE WITH SMOKE CONTROL PANEL TO VISUALLY IDENTIFY IF ZONE IS IN ALARM AND AUTOMATICALLY ACTIVE SMOKE REMOVAL SYSTEM FOR ZONE AS REQUIRED PER SPECIFICATIONS.

SYSTEM SHALL BE EDWARDS AIR-INTELLIGENCE PER SPECIFICATIONS. CONTACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

GENERAL NOTES:

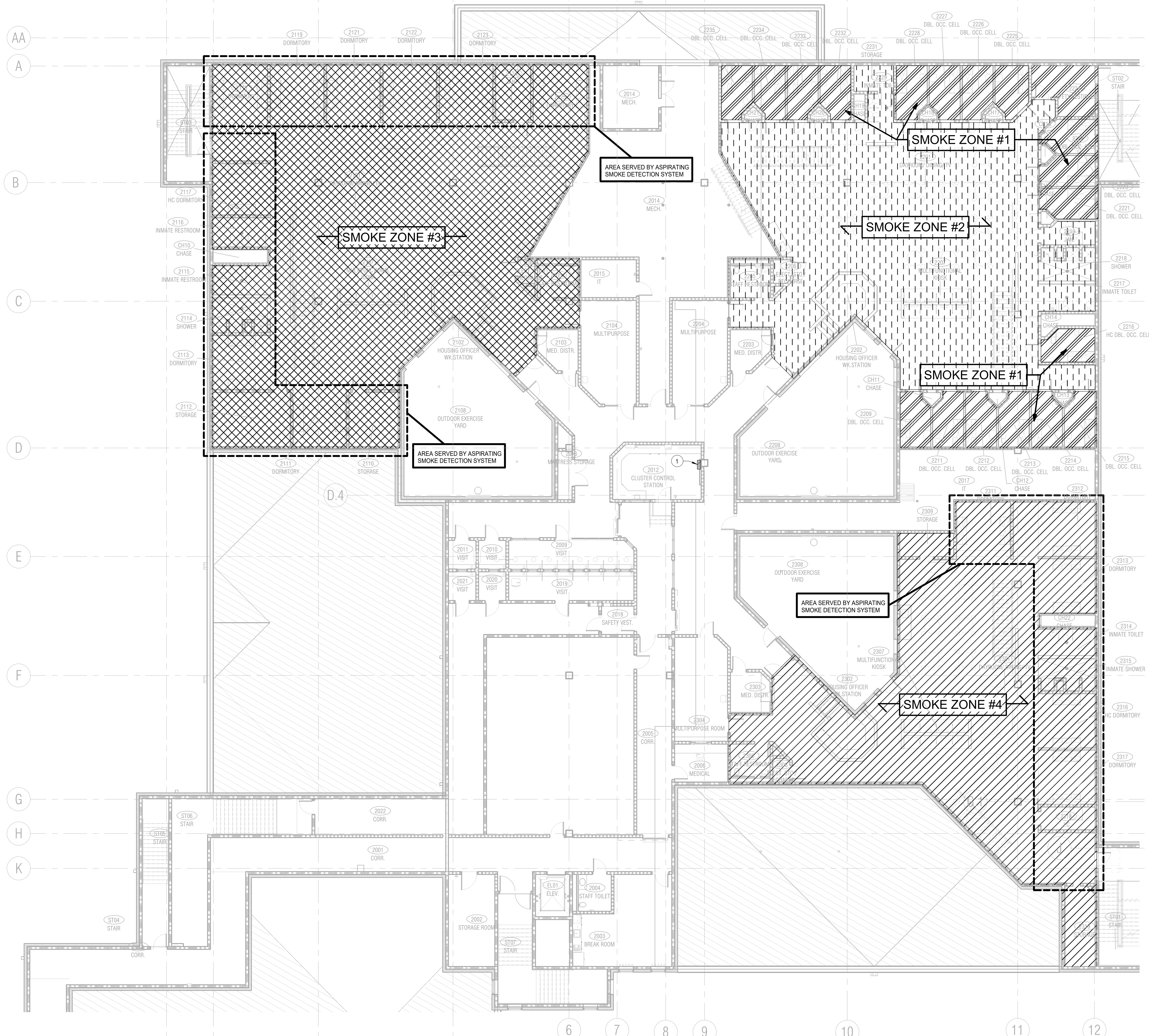
1. REFER TO MP000 FOR ADDITIONAL HVAC & GENERAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND.
2. ALL SMOKE ZONES AND ASSOCIATED MOTORIZED DAMPERS IN EACH ZONE SHALL OPERATE INDEPENDENTLY OF EACH OTHER AS DESCRIBED IN SPECIFICATIONS. DAMPER SHALL BE CONNECTED TO THE FACP. (1)
3. SMOKE DETECTORS SHALL BE PROVIDED IN BOTH RETURN AIR AND EXHAUST AIR DUCTWORK. REFER TO MECHANICAL DETAILS FOR SMOKE DETECTOR LAYOUT.

SMOKE DETECTION NOTES:

1. SMOKE DETECTION AND ALARM WILL BE ACCOMPLISHED IN THE SEVEN SMOKE EVACUATION ZONES SHOWN UTILIZING THE INTELLIGENT ADDRESSABLE FIRE CONTROL SYSTEM OF THE BUILDING. REFER TO SPECS SECTION 283110.
2. THE FIRE ALARM CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE SYSTEM DESIGN.
3. THE DESIGN SUBMITTAL SHALL INCLUDE ONE LINE, PLAN LAYOUT, CUT SHEETS, PERFORMANCE CRITERIA AND APPLICABLE CALCULATIONS.
4. THE ADDRESSABLE SYSTEM SHALL DETECT SMOKE AND INITIATE THE SMOKE REMOVAL SYSTEM WITHIN 45 SECONDS. EACH SMOKE DETECTION ZONE SHALL INDEPENDENTLY DETECT SMOKE AND ANNUNCIATE ALARM.
5. THE DETECTION SYSTEM SHALL INCORPORATE THE FOLLOWING DETECTION METHODS:
   A. ENCLOSED CELL/AREA PROTECTION.
   B. RETURN AIR DUCT PROTECTION FOR THE AHU'S IN THE ZONE. REFER TO HVAC PLANS.
6. THE SYSTEM SHALL BE PROGRAMMED FOR ZONE. AUTOMATIC RESET WHEN SMOKE DETECTOR ALARMS CLEAR.
7. THE SYSTEM SHALL BE FULLY INSPECTED AND TESTED FOR COMPLIANCE WITH THE TEXAS COMMISSION ON JAIL STANDARDS (TCJS). THE CONTRACTOR SHALL MAKE ANY NEEDED FIELD CHANGES OR IMPROVEMENTS TO SATISFACTORILY PASS TCJS INSPECTION AND TESTS. IF WHILE PRE-TESTING AND THE SYSTEM DOES NOT PASS TCJS REQUIEREMENTS, ANY ADDITIONAL PRODUCTS / ALARMS / HEADS ADDED TO PASS TESTING SHALL BE PRE-APPROVED BY THE EOR AND THE COST FOR THE ADDITIONAL WORK SHALL NOT BE PASSED ONTO THE OWNER AND SHALL BE ABSORBED BY THE CONTRACTOR.

NOTES BY SYMBOL "○":

1 SMOKE CONTROL PANEL. REFER TO SPECIFICATIONS SECTIONS 28 31 10 FOR PANEL REQUIREMENTS.



Project: Collin Co ADF Booking Add
Designation: SSF-01 / SEF-01
Serves: Zone 1
System AHU: AHU-I-8

Design ACH: **30**

Smoke Testing Candle Count *:
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
2209	DLB. OCC. CELL	81	10.0	810	370	410
2211	DLB. OCC. CELL	81	10.0	810	370	410
2212	DLB. OCC. CELL	81	10.0	810	370	410
2213	DLB. OCC. CELL	81	10.0	810	370	410
2214	DLB. OCC. CELL	81	10.0	810	370	410
2215	DLB. OCC. CELL	81	10.0	810	370	410
2216	HC DBL. OCC CELL	88	10.0	880	400	440
2221	DLB. OCC. CELL	81	10.0	810	370	410
2222	DLB. OCC. CELL	81	10.0	810	370	410
2223	DLB. OCC. CELL	83	10.0	830	380	420
224	SAFETY VESTIBULE	-	-	-	125	-
2225	DLB. OCC. CELL	81	10.0	810	370	410
2226	DLB. OCC. CELL	81	10.0	810	370	410
2227	DLB. OCC. CELL	81	10.0	810	370	410
2228	DLB. OCC. CELL	81	10.0	810	370	410
2232	DLB. OCC. CELL	81	10.0	810	370	410
2233	DLB. OCC. CELL	81	10.0	810	370	410
2234	DLB. OCC. CELL	81	10.0	810	370	410
2235	DLB. OCC. CELL	81	10.0	810	370	410
3201	DLB. OCC. CELL	81	9.33	756	350	380
3202	DLB. OCC. CELL	81	9.33	756	350	380
3203	DLB. OCC. CELL	81	9.33	756	350	380
3204	DLB. OCC. CELL	81	9.33	756	350	380
3205	DLB. OCC. CELL	81	9.33	756	350	380
3206	DLB. OCC. CELL	81	9.33	756	350	380
3207	DLB. OCC. CELL	88	9.33	821	380	420
3213	DLB. OCC. CELL	81	9.33	756	350	380
3214	DLB. OCC. CELL	81	9.33	756	350	380
3215	DLB. OCC. CELL	83	9.33	774	360	390
3216	SAFETY VESTIBULE	-	-	-	165	-
3217	DLB. OCC. CELL	81	9.33	756	350	380
3218	DLB. OCC. CELL	81	9.33	756	350	380
3219	DLB. OCC. CELL	81	9.33	756	350	380
3221	DLB. OCC. CELL	81	9.33	756	350	380
3224	DLB. OCC. CELL	81	9.33	756	350	380
3225	DLB. OCC. CELL	81	9.33	756	350	380
3226	DLB. OCC. CELL	81	9.33	756	350	380
3227	DLB. OCC. CELL	81	9.33	756	350	380

SUPPLY (CFM)	13,330
EXHAUST (CFM)	14,310

Project: Collin Co ADF Booking Add
Designation: SSF-02 / SEF-02
Serves: Zone 2
System AHU: AHU-I-7

Design ACH: **30**

Smoke Testing Candle Count *:
14 30 SECOND CANDLE/S IN DAYROOM
4 60 SECOND CANDLE/S IN DAYROOM
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
2201	DAYROOM/DINING/TV	1125	10	11,250	5070	5630
2201	DAYROOM/DINING/TV	2385	20.67	49,298	22210	24650
2202	HOUSING OFFICER WK. STATION	105	20.67	2,170	990	1090
2205	STAFF RESTROOM	-	-	-	200	-
2206	ELECT. STORAGE RECHARGE	-	-	-	60	-
2207	MULTIFUNCTIONAL KIOSK	110	20.67	2,274	1030	1140
2217	INMATE TOILET	90	10	900	410	450
2218	SHOWER	100	10	1,000	450	500
2219	JANITOR	-	-	-	55	-
2229	INMATE TOILET	35	10	350	170	180
2231	STORAGE	-	-	-	40	-
-	CORRIDOR	1315	10	13,150	5930	6580
3208, 3209	INMATE SHOWER, INMATE TOILET	185	9.33	1,726	790	870
3211	JANITOR	-	-	-	115	-
3222	INMATE TOILET	35	9.33	327	160	170
3223	STORAGE	-	-	-	45	-

SUPPLY (CFM)	37,725
EXHAUST (CFM)	41,260

TOTAL VOL. (FT3)	82,445

RESPONSIBILITY MATRIX				
DEVICE	SUPPLIED BY	INSTALLED BY	WIRING AND CONTROLS	WIRING BY ELECTRICAL
HVAC UNITS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
FANS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
TEMP AND MISC. SENSORS	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO SENSORS	N/A
CURRENT SENSING RELAY	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO CSR	N/A
SMOKE DETECTORS	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM PANEL TO DEVICE

FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL SMOKE CONTROL PANEL AND WIRING TO STARTER FOR CONTROL OF SMOKE PURGE FANS

1 LEVEL 1 OVERALL PLAN - SMOKE ZONES
3/32" = 1'-0"

GRAPHIC SCALE
3/32" = 1'-0"
0 3' 6' 12' 24'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850
BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

LEVEL 1 OVERALL PLAN - SMOKE ZONES

21913
07/13/2021
M121

FOR BID

Brinkley Sargent Wiginton Architects, Inc.

ASPIRATING SMOKE DETECTION SYSTEM NARRATIVE:

AREAS IDENTIFIED WITHIN DASHED LINES ARE SERVED BY AN ASPIRATING SMOKE DETECTION SYSTEM. SYSTEM SHALL MONITOR IDENTIFIED ZONES THROUGH SAMPLING POINTS CONNECTED TO A CENTRAL ASPIRATING SMOKE DETECTOR WITHIN STORAGE OR JANITOR ROOM. DETECTOR SHALL BE INTERLOCKED TO SMOKE CONTROL PANEL LOCATED IN CLUSTER CONTROL STATION.

EACH ROOM IN THE IDENTIFIED ZONES SHALL HAVE TAMPER PROOF SAMPLING POINTS CAPABLE OF PROVIDING DETECTION OF SMOKE WITHIN 45 SECONDS PER SPECIFICATIONS. PROVIDE COUNTERSUNK TORX HEAD SECURITY SCREW FOR TAMPER PROOF SAMPLING POINTS. PIPING FROM SAMPLING POINTS SHALL BE ROUTED IN BULKHEAD OR ABOVE PLANK CEILING TO ASPIRATING SMOKE DETECTOR. REFER TO ELECTRICAL DRAWINGS E311 AND E321 FOR DETECTOR LOCATIONS. DETECTORS SHALL COMMUNICATE WITH SMOKE CONTROL PANEL TO VISUALLY IDENTIFY IF ZONE IS IN ALARM AND AUTOMATICALLY ACTIVE SMOKE REMOVAL SYSTEM FOR ZONE AS REQUIRED PER SPECIFICATIONS.

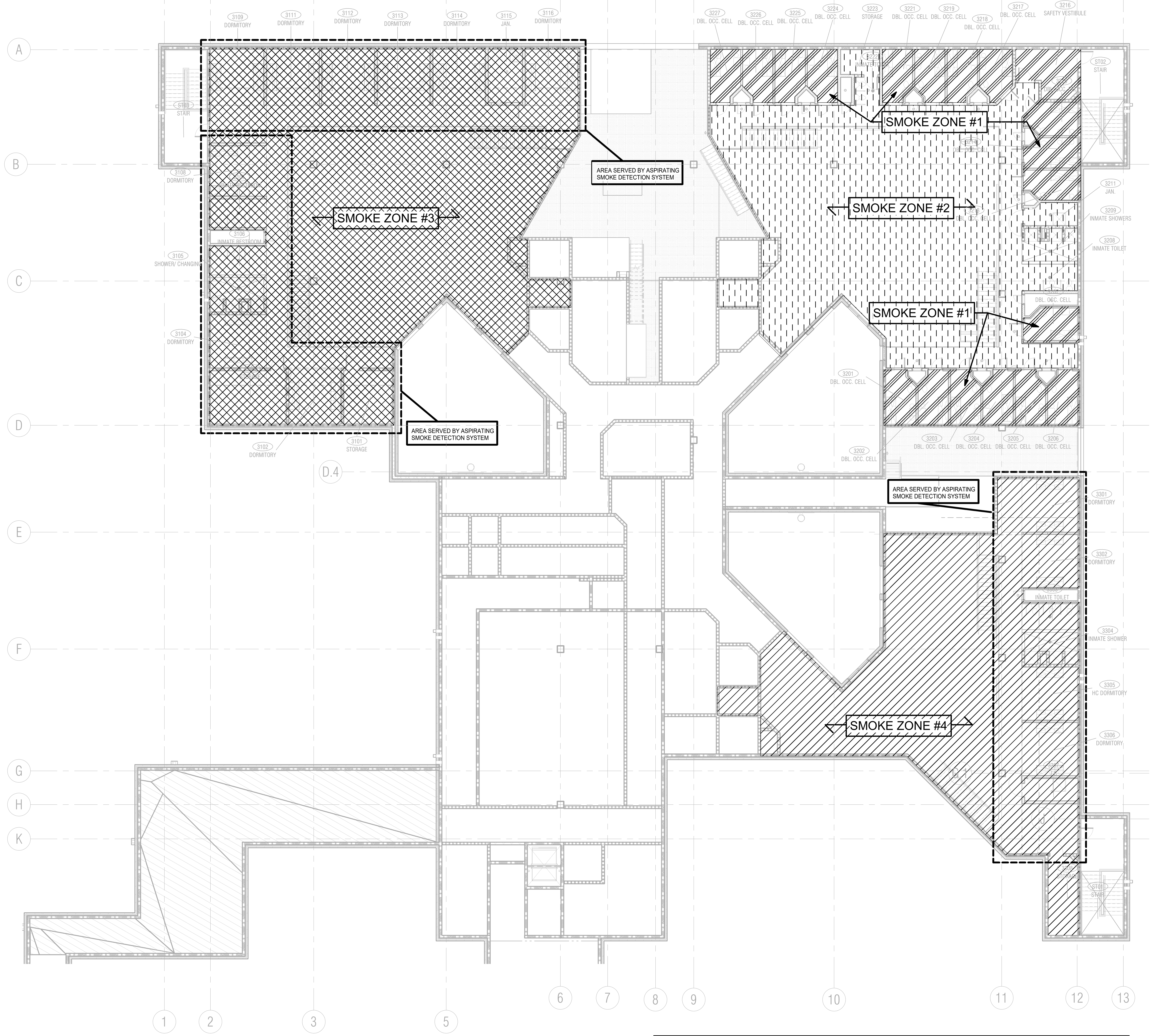
SYSTEM SHALL BE EDWARDS AIR-INTELLIGENCE PER SPECIFICATIONS. CONTACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

GENERAL NOTES:

1. REFER TO MP000 FOR ADDITIONAL HVAC & GENERAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND.
2. ALL SMOKE ZONES AND ASSOCIATED MOTORIZED DAMPERS IN EACH ZONE SHALL OPERATE INDEPENDENTLY OF EACH OTHER AS DESCRIBED IN SPECIFICATIONS. DAMPER SHALL BE CONNECTED TO THE FACP. (1)
3. SMOKE DETECTORS SHALL BE PROVIDED IN BOTH RETURN AIR AND EXHAUST AIR DUCTWORK. REFER TO MECHANICAL DETAILS FOR SMOKE DETECTOR LAYOUT.

SMOKE DETECTION NOTES:

1. SMOKE DETECTION AND ALARM WILL BE ACCOMPLISHED IN THE SEVEN SMOKE EVACUATION ZONES SHOWN UTILIZING THE INTELLIGENT ADDRESSABLE FIRE CONTROL SYSTEM OF THE BUILDING. REFER TO SPECS SECTION 283110.
2. THE FIRE ALARM CONTRACTOR WILL BE RESPONSIBLE FOR THE COMPLETE SYSTEM DESIGN.
3. THE DESIGN SUBMITTAL SHALL INCLUDE ONE LINE, PLAN LAYOUT, CUT SHEETS, PERFORMANCE CRITERIA AND APPLICABLE CALCULATIONS.
4. THE ADDRESSABLE SYSTEM SHALL DETECT SMOKE AND INITIATE THE SMOKE REMOVAL SYSTEM WITHIN 45 SECONDS. EACH SMOKE DETECTION ZONE SHALL INDEPENDENTLY DETECT SMOKE AND ANNUNCIATE ALARM.
5. THE DETECTION SYSTEM SHALL INCORPORATE THE FOLLOWING DETECTION METHODS:
   A. ENCLOSED CELL/AREA PROTECTION.
   B. RETURN AIR DUCT PROTECTION FOR THE AHU'S IN THE ZONE. REFER TO HVAC PLANS.
6. THE SYSTEM SHALL BE PROGRAMMED FOR ZONE. AUTOMATIC RESET WHEN SMOKE DETECTOR ALARMS CLEAR.
7. THE SYSTEM SHALL BE FULLY INSPECTED AND TESTED FOR COMPLIANCE WITH THE TEXAS COMMISSION ON JAIL STANDARDS (TCJS). THE CONTRACTOR SHALL MAKE ANY NEEDED FIELD CHANGES OR IMPROVEMENTS TO SATISFACTORILY PASS TCJS INSPECTION AND TESTS. IF WHILE PRE-TESTING AND THE SYSTEM DOES NOT PASS TCJS REQUIEREMENTS, ANY ADDITIONAL PRODUCTS / ALARMS / HEADS ADDED TO PASS TESTING SHALL BE PRE-APPROVED BY THE EOR AND THE COST FOR THE ADDITIONAL WORK SHALL NOT BE PASSED ONTO THE OWNER AND SHALL BE ABSORBED BY THE CONTRACTOR.



1 TIER LEVEL OVERALL PLAN - SMOKE ZONES
3/32" = 1'-0"

Project: Collin Co ADF Booking Add
Designation: SSF-03A, SSF-03B, & SSF-03C / SEF-03
Serves: Zone 3
System AHU: AHU-I-6

Design ACH: 30

Smoke Testing Candle Count *:
14 30 SECOND CANDLE/S IN DAYROOM
4 60 SECOND CANDLE/S IN DAYROOM
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
2101	DAYROOM/DINING/TV	2341	20.67	48,388	25225	24200
2101	DAYROOM/DINING/TV	1100	10	11,000	4950	5500
2102	HOUSING OFFICER WK.STATION	129	20.67	2,666	1210	1340
2105	STAFF RESTROOM	-	-	-	155	-
2106	ELECT. STO / RECHARGE	-	-	-	60	-
2107	MULTIFUNCTIONAL KIOSK	106	20.67	2,191	990	1100
2110	STORAGE	-	-	-	90	-
2111	DORMITORY	157	10	1,570	220	790
2112	STORAGE	-	-	-	135	-
2113	DORMITORY	161	10	1,610	230	810
2114	SHOWER	91	10	910	420	460
2115	INMATE RESTROOM	94	10	940	210	470
2116	INMATE RESTROOM	87	10	870	100	440
2117	HC DORMITORY	152	10	1,520	215	760
2118	DORMITORY	163	10	1,630	235	820
2119	DORMITORY	161	10	1,610	235	810
2121	DORMITORY	161	10	1,610	235	810
2122	DORMITORY	161	10	1,610	235	810
2123	DORMITORY	161	10	1,610	235	810
2124	JANITOR	-	-	-	50	-
2125	DORMITORY	161	10	1,610	235	810
-	CORRIDOR	1101	10	11,010	4960	5510
3101	STORAGE	-	-	-	90	-
3102	DORMITORY	157	9.33	1,465	670	740
3103	STORAGE	-	-	-	120	-
3104	DORMITORY	161	9.33	1,502	690	760
3105	SHOWER	91	9.33	849	390	430
3106	INMATE RESTROOM	94	9.33	877	400	440
3107	INMATE RESTROOM	87	9.33	812	370	410
3108	DORMITORY	152	9.33	1,418	640	710
3109	DORMITORY	160	9.33	1,493	925	750
3111	DORMITORY	158	9.33	1,474	915	740
3112	DORMITORY	158	9.33	1,474	915	740
3113	DORMITORY	158	9.33	1,474	915	740
3114	DORMITORY	158	9.33	1,474	915	740
3115	JANITOR	-	-	-	50	-
3116	DORMITORY	158	9.33	1,474	915	740

SUPPLY (CFM)	49,550
EXHAUST (CFM)	54,190

TOTAL VOL. (FT3)	108,142

Project: Collin Co ADF Booking Add
Designation: SSF-04 / SEF-04
Serves: Zone 4
System AHU: AHU-I-9

Design ACH: 30

Smoke Testing Candle Count *:
14 30 SECOND CANDLE/S IN DAYROOM
1 60 SECOND CANDLE/S IN DAYROOM
1 30 SECOND CANDLE/S PER DORM/CELL
* ONLY (1) DORM OR DAYRM. SHALL BE TESTED AT A TIME
* ONLY (1) SMOKE ZONE SHALL BE TESTED AT A TIME

Room Number	Room Name	Area (ft2)	Avg. Ceiling Ht. (ft)	Volume (ft3)	Smoke Supply (CFM)	Smoke Exhaust (CFM)
2301	DAYROOM/DINING/TV	1781	20.67	36813	19555	18410
2301	DAYROOM/DINING/TV	678	10	6780	3060	3390
2302	HOUSING OFFICER WK.STATION	129	20.67	2666	1210	1340
2305	STAFF RESTROOM	-	-	-	40	-
2306	ELECT. STO. / RECHARGE	-	-	-	60	-
2307	MULTIFUNCTIONAL KIOSK	106	20.67	2191	990	1100
2309	STORAGE	-	-	-	70	-
2311	DORMITORY	168	10	1680	235	840
2312	DORMITORY	231	10	2310	460	1160
2313	DORMITORY	161	10	1610	230	810
2314	INMATE TOILET	87	10	870	170	440
2315	INMATE SHOWER	84	10	840	180	420
2316	HC DORMITORY	162	10	1620	230	810
2317	DORMITORY	161	10	1610	230	810
2318	JANITOR	-	-	-	90	-
2319	STORAGE	-	-	-	125	-
-	CORRIDOR	682	10	6820	3070	3410
3301	DORMITORY	230	10	2300	1040	1150
3302	DORMITORY	161	10	1610	730	810
3303	INMATE TOILET	87	10	870	400	440
3304	INMATE SHOWER	84	10	840	380	420
3305	DORMITORY	163	10	1630	740	820
3306	DORMITORY	161	10	1610	730	810
3307	JANITOR	-	-	-	50	-
3308	STORAGE	-	-	-	125	-

SUPPLY (CFM)	34,200
EXHAUST (CFM)	37,390

TOTAL VOL. (FT3)	74,671

RESPONSIBILITY MATRIX

DEVICE	SUPPLIED BY	INSTALLED BY	WIRING AND CONTROLS	WIRING BY ELECTRICAL
HVAC UNITS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
FANS	MECHANICAL CONTRACTOR	MECHANICAL CONTRACTOR	DDC PANEL TO STARTER OR VFD	ELECTRICAL PANEL TO STARTER/VFD
TEMP AND MISC. SENSORS	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO SENSORS	N/A
CURRENT SENSING RELAY	CONTROLS SUBCONTRACTOR	CONTROLS SUBCONTRACTOR	DDC PANEL TO CSR	N/A
SMOKE DETECTORS	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM CONTRACTOR	FIRE ALARM PANEL TO DEVICE

FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL SMOKE CONTROL PANEL AND WIRING TO STARTER FOR CONTROL OF SMOKE PURGE FANS

GRAPHIC SCALE
3/32" = 1'-0"
0 3' 6' 12' 24'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
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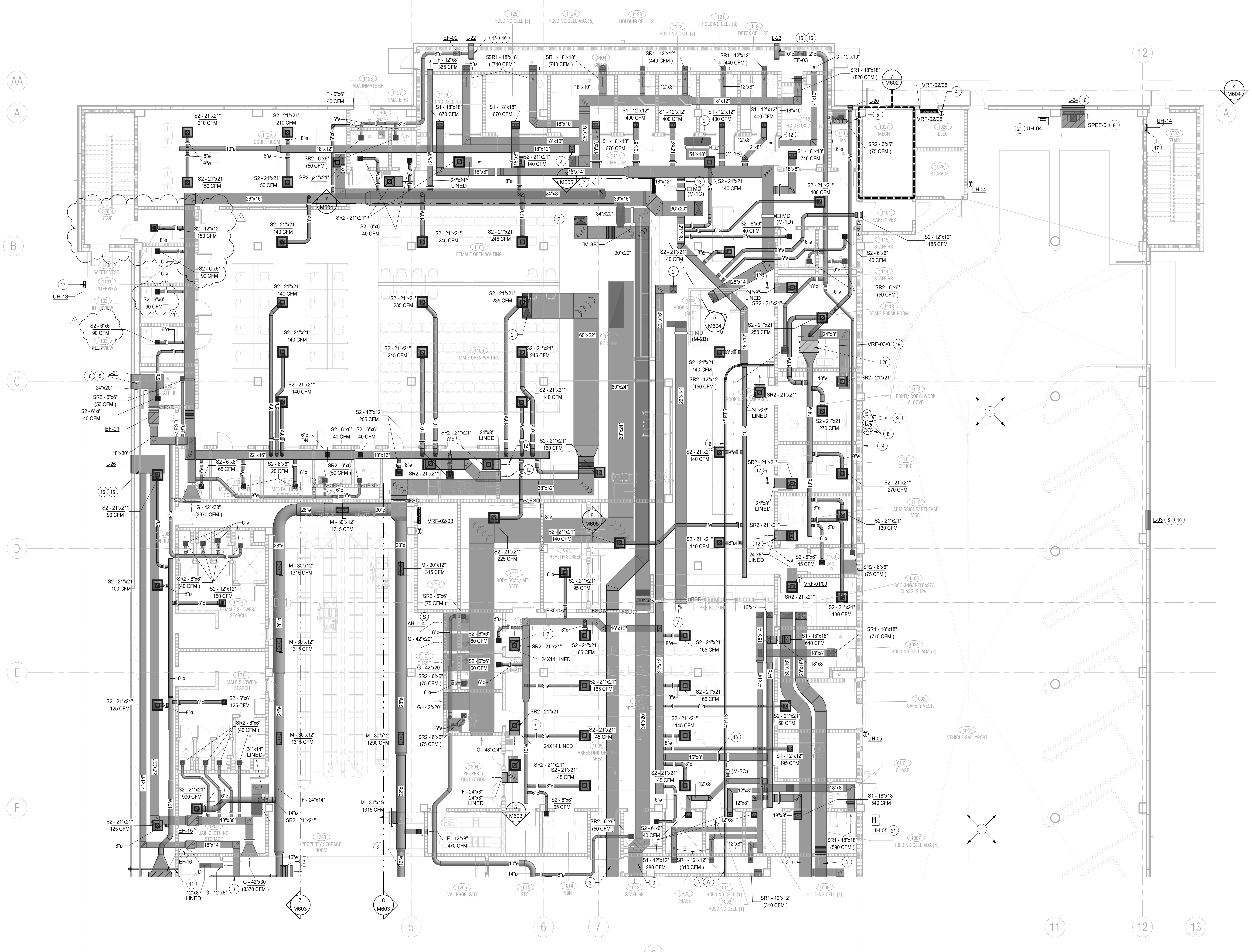
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

TIER LEVEL OVERALL PLAN - SMOKE ZONES

21913
07/13/2021
M122

FOR BID



1 LOWER LEVEL EAST FLOOR PLAN - DUCTWORK
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

GENERAL NOTES:

1 REFER TO MP000 FOR GENERAL HVAC NOTES, ABBREVIATIONS, AND SYMBOLS.

2 FURNISH AND INSTALL SECURITY BARRIER AS DETAILED IN ALL WALL, FLOOR, OR ROOF PENETRATION GREATER THAN 8"X8" IN SECURE AREA.

3 PROVIDE SMOKE DETECTORS IN ALL SECURITY RETURN AIR AND EXHAUST AIR GRILLES WHERE ACCESSIBLE.

4 ALL RADIUS TURNS SHALL BE SMOOTH WALL WITH A RADIUS OF R=1.5D.

5 ALL SUPPLY AND RETURN DIFFUSERS ARE TYPE 'S1'/'SR1' SECURITY DIFFUSERS IN CELLS/HOLDING AREAS. AND 'S2'/'SR2' IN DETENTION DAYROOMS UNLESS SPECIFIED OTHERWISE.

6 SECURITY GRILLES LOCATED IN TECTUM LAY-IN CEILINGS SHALL BE SIZE SO FLANGE WILL ATTACH TO TECTUM TRACK. TECTUM TRACK TO NEVER BE CUT.

7 COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT OR DUCTWORK.

8 ALL DUCTWORK SHALL BE CONSTRUCTED TO PREVENT DEFLECTION OG GREATER THAN 0.125" AT 4" WC OF POSITIVE OR NEGATIVE PRESSURE.

9 ALL SHEET METAL DUCTWORK PENETRATING FIRE RATED WALLS SHALL BE MINIMUM OF 26 GAUGE. ALL OTHER DUCT SHALL BE CONSTRUCTED AS SPECIFIED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARD".

10 DOUBLE NUT LOCK DOWN FOR MULTI-VANE DAMPERS INSTALLED IN HIGH VELOCITY DUCTWORK/SMOKE REMOVAL DUCTWORK.

11 PROVIDE RADIUS FITTINGS FOR ALL DUCTWORK, WHERE NOT POSSIBLE SINGLE WALL TURNING VANES IN 30-45 DEG. TURNS IN DUCTWORK. TURNS GREATER THAN 45 DEG. SHALL BE DOUBLE WALL.

12 SECURITY GRILLES LOCATED IN CELL CHASE WALLS SHALL BE MOUNTED AT 7'-0" A.F.F. BOTTOM OF GRILLE.

13 ALL AIR DEVICES SHALL HAVE MANUAL BALANCING DAMPERS AS INDICATED IN SPECIFICATIONS FOR BALANCING.

14 PROVIDE SECURITY HOLD DOWN CLIPS AND TAMPER PROOF SCREWS (TYPICAL) AT SECURED CEILINGS.

15 HVAC SYSTEM SHALL BE BALANCED IN SMOKE PURGE MODE WITH FLOW DATA VALUES REPORTED IN NORMAL OPERATION.

16 CONTRACT DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL MECHANICAL MATERIAL PER SMACNA STANDARDS.

17 INSTALL RETURN AIR SENSORS IN RETURN AIR DUCTS FOR CONTROLLING AHU's SERVING DETENTION AREAS. CONTROLS SHALL BE LOCATED IN CLUSTER CONTROL STATION 2011 . COORDINATE EXACT LOCATION WITH ARCHITECTS AND OWNER.

18 ALL GRILLES INSTALLED IN PLANK CEILINGS SHALL BE INSTALLED CENTERED BETWEEN PLANKS.

19 IF CABLE DAMPERS ARE USED, LOCATE IN NEAREST PLUMBING CHASE OR CLOSET. ALL CABLE DAMPERS SHALL HAVE AN IDENTIFICATION TAG INDICATING CELL, SUPPLY/RETURN, AND LOCATION OF DAMPER.

20 INSTALL CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN LOCATIONS APPROVED BY THE ARCHITECT.

21 NO PVC IN RETURN AIR PLENUM. ALL MATERIAL MUST BE PLENUM RATED FOR SMOKE AND FIRE SPREAD.

NOTES BY SYMBOL "◯":

1 ALL DUCTWORK, PIPING, WIRING, AND CONDUIT SHALL BE ROUTED TIGHT AGAINST WALL. ROUTES CROSSING VEHICLE SALLYPORT (1001) SHALL BE TIGHT TO STRUCTURE AND 15'-0" ABOVE FINISHED FLOOR.

2 PROVIDE FSD AT FLOOR PENETRATION.

3 REFER TO M202 FOR CONTINUATION.

4 PROVIDE INSULATED BACKPLATE FOR THERMOSTAT ON PARTITION OF EXTERIOR WALL WHERE ADJOINING ROOM IS NOT CONTROLLED WITH VRF/AHU SYSTEM. TYPICAL FOR ALL APPLICABLE INSTANCES.

5 INTERLOCK MOTORIZED DAMPER TO OPEN WHEN VRF-03/01 IS ENERGIZED.

6 4" PNEUMATIC TUBE SYSTEM (PTS), COORDINATE ROUTING WITH ALL OTHER TRADES. REFER TO MANUFACTURERS ROUTING PREFERENCES TO BE ALL ABOVE CEILING.

7 TERMINATE RETURN/TRANSFER DUCT ABOVE CEILING.

8 APPROXIMATE LOCATION FOR THERMOSTAT (SET TO 85F), TIMER, CONTROLS, AND CO/NO2 SENSOR FOR SALLY PORT EXHAUST SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION AND INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL CONTROL COMPONENTS TO BE MOUNTED HERE.

9 INTERLOCK MOTORIZED LOUVERS (L-01, L-01, AND L-03) AND SALLY PORT EXHAUST FAN, SPEF-01, WITH CO/NO2 SENSOR AND THERMOSTAT SHOWN IN SPACE. SYSTEM SHALL BE INTERLOCKED WITH TOUCH SCREEN SYSTEM FOR MANUAL OPERATION, REFER TO E401. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL CONTROL COMPONENTS TO BE MOUNTED HERE.

10 INSTALL LOUVER 24" ABOVE FINISHED GRADE.

11 PROVIDE 4" DUCT WORK (CONFIRM EXACT SIZE WITH DRYER MANUFACTURER) FOR DRYER VENT. ROUTE TO OUTSIDE AND PROVIDE DRYER VENT CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

12 TERMINATE 14X10 ABOVE CEILING.

13 BALANCE DAMPER TO 1,300 CFM.

14 LOCATION OF MOTOR STARTER FOR SPEF-01. INSTALL TO ALL ADA REQUIREMENTS.

15 PROVIDE INSULATED PLENUM. DEPTH SHALL BE A MINIMUM OF 36".

16 LOUVER SHALL BE INSTALLED A MINIMUM OF 10'-0" ABOVE GRADE.

17 RECESSED MOUNTED UNIT HEATER 14" A.F.F.

18 BALANCE DAMPER TO 610 CFM.

19 PROVIDE 72"X6" HINGED SECURITY ACCESS DOOR WITH KEYED ACCESS. CONTRACTOR SHALL ALIGN ACCESS DOOR UNDER FILER ACCESS OF ASSOCIATED UNIT ABOVE. MATCH FRAME AND ACCESS DOOR WITH CEILING. REFERENCE ARCHITECTURAL REFLECTIVE CEILING PLANS AND ROOM FINISH SCHEDULE. TYPICAL ALL VRF UNITS INSTALLED ABOVE SECURITY CEILING.

20 PROVIDE THERMISTOR IN SUPPLY DUCT OF VRF DUCTED UNIT. THERMISTOR SHALL BE MAPPED BACK TO BAS. TYPICAL ALL DUCTED VRF UNITS.

21 BOTTOM OF UNIT HEATER 8'-0" A.F.F.

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Email: mdengca@md-eng.com Project No.: 201254

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect:	Brinkley Sargent Wiginton Architects	(972) 960-9970
Civil:	Pacheco Koch	(214) 451-2765
Structural:	JQ Engineering	(214) 752-9098
MEP / IT:	MD Engineering	(469) 467-0200
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HISTORY

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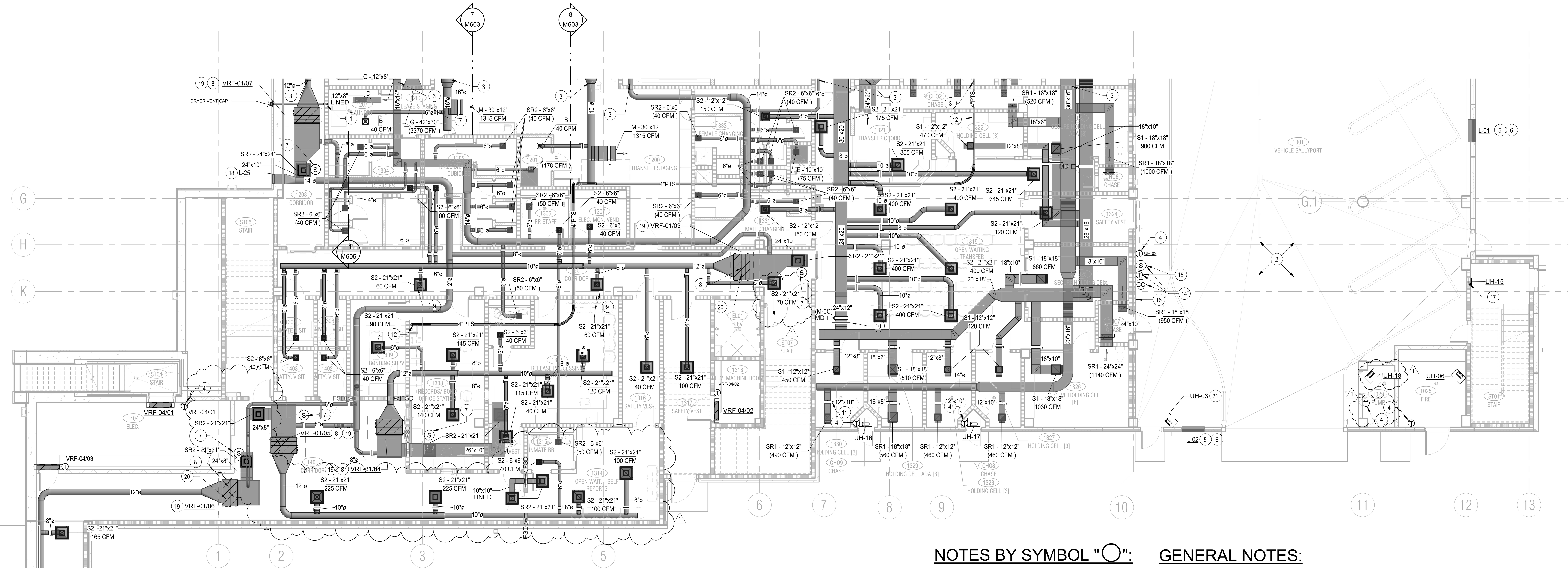
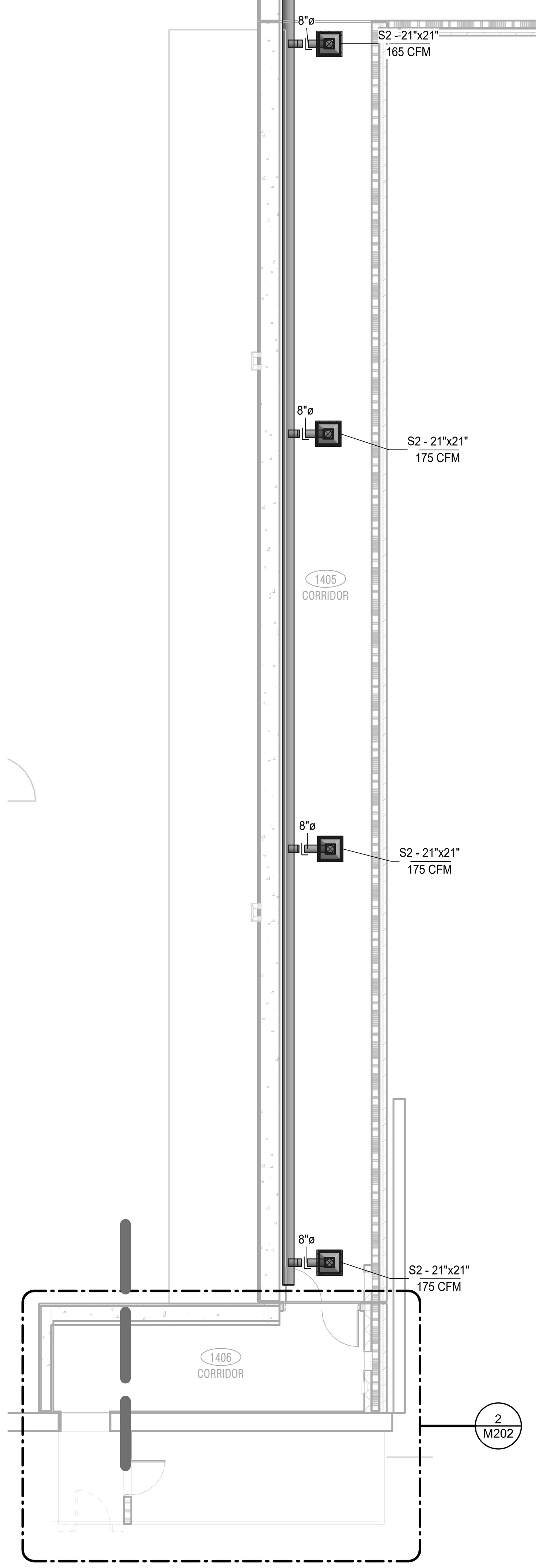
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

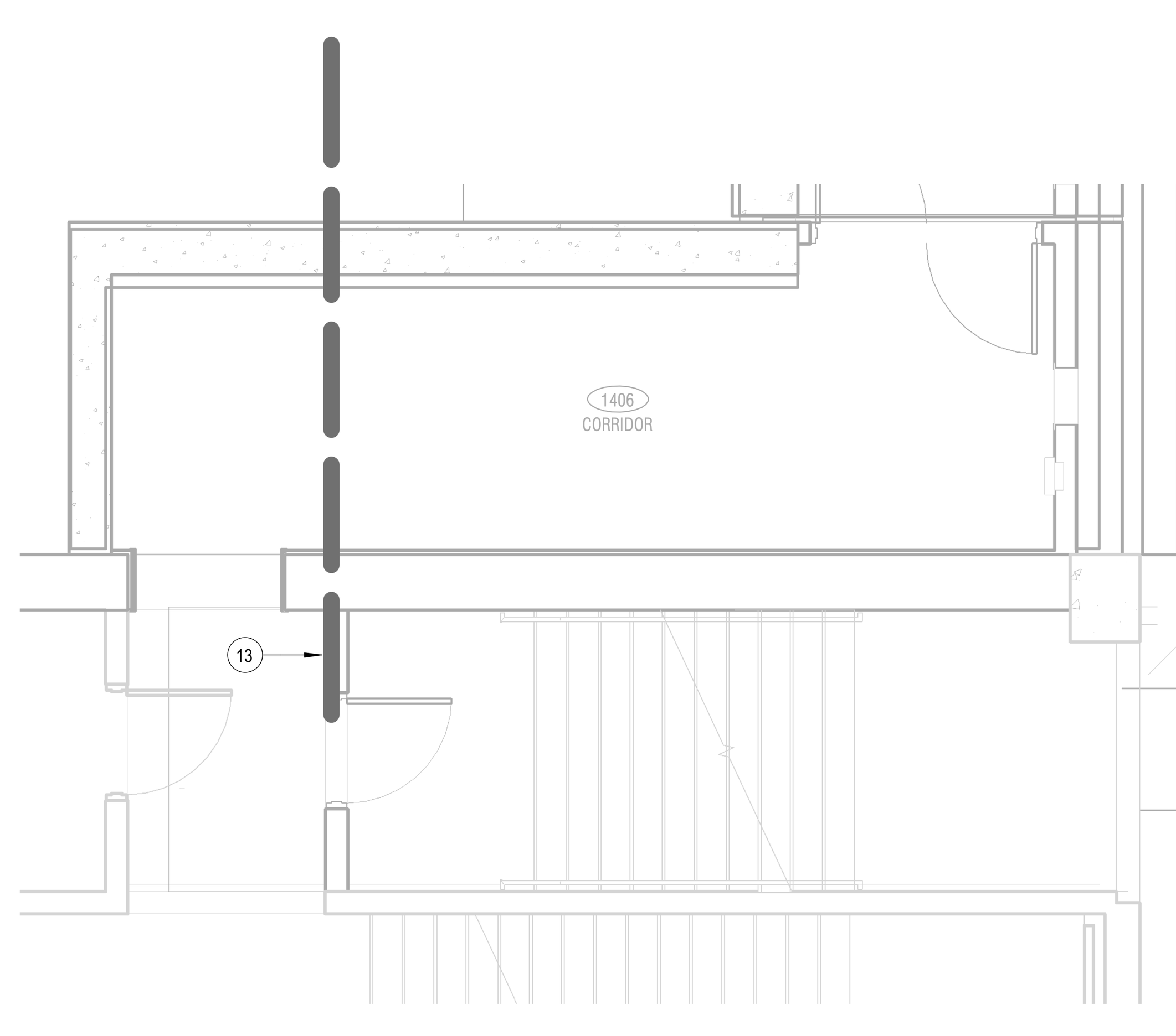
LOWER LEVEL EAST FLOOR PLAN - DUCTWORK

21913
07/13/2021
M201

FOR BID

1 LOWER LEVEL WEST FLOOR PLAN - DUCTWORK
1/8" = 1'-0"



2 ENLARGED PLAN - CORRIDOR 1406
1/4" = 1'-0"

NOTES BY SYMBOL "○":

1 PROVIDE 4" DUCT WORK (CONFIRM EXACT SIZE WITH DRYER MANUFACTURER) FOR DRYER VENT. ROUTE TO OUTSIDE AND PROVIDE DRYER VENT CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 ALL DUCTWORK, PIPING, WIRING, AND CONDUIT SHALL BE ROUTED TIGHT AGAINST WALL. ROUTES CROSSING VEHICLE SALLYPORT (1001) SHALL BE TIGHT TO STRUCTURE AND 15'-0" ABOVE FINISHED FLOOR.

3 REFER TO M202 FOR CONTINUATION.

4 PROVIDE INSULATED BACKPLATE FOR THERMOSTAT ON PARTITION OF EXTERIOR WALL WHERE ADJOINING ROOM IS NOT CONTROLLED WITH VRF/AHU SYSTEM. TYPICAL FOR ALL APPLICABLE INSTANCES.

5 INSTALL LOUVER 24" ABOVE FINISHED GRADE.

6 INTERLOCK MOTORIZED LOUVERS (L-01, L-01, AND L-03) AND SALLY PORT EXHAUST FAN, SPEF-01, WITH CO/NO2 SENSOR AND THERMOSTAT SHOWN IN SPACE. SYSTEM SHALL BE INTERLOCKED WITH TOUCH SCREEN SYSTEM FOR MANUAL OPERATION, REFER TO E401. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL CONTROL COMPONENTS TO BE MOUNTED HERE.

7 CONTRACTOR TO INSTALL RETURN AIR SENSOR IN CEILING ADJACENT TO UNIT. UNIT TO BE CONTROLLED BY CENTRAL CONTROLLER IN CLUSTER CONTROL STATION.

8 UNIT'S ASSOCIATED CONTROLLER SHALL BE INSTALLED ON UNIT.

9 PROVIDE DAMPER IN VERTICAL. TYPICAL ALL INSTANCE.

10 BALANCE DAMPER TO 1,515 CFM.

11 PROVIDE CABLE CONTROLS FOR BALANCING DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. DAMPER CONTROLLER SHALL BE LOCATED IN ADJACENT ACCESSIBLE SPACE AND IDENTIFIED WITH ROOM NUMBER. DAMPER CONTROLLER TO BE MOUNTED IN CEILING OF STORAGE ROOM, SAFETY VESTIBULE, OR ACCESSIBLE PLUMBING CHASE CLOSEST TO DAMPER. TYPICAL ALL INSTANCES.

12 4" PNEUMATIC TUBE SYSTEM, COORDINATE ROUTING WITH ALL OTHER TRADES. REFER TO MANUFACTURERS ROUTING PREFERENCES TO BE ALL ABOVE CEILING.

13 ANY EXISTING MECHANICAL PENETRATION THROUGH NEW FIRE RATED WALL SHALL BE PROTECTED TO MAINTAIN FIRE RATING.

14 APPROXIMATE LOCATION FOR THERMOSTAT (SET TO 85F), TIMER, CONTROLS, AND CO/NO2 SENSOR FOR SALLY PORT EXHAUST SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION AND INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL CONTROL COMPONENTS TO BE MOUNTED HERE.

15 INTERLOCK MOTORIZED LOUVERS (L-01, L-02, AND L-03) AND SALLY PORT EXHAUST FAN, SPEF-01, WITH CO/NO2 SENSOR AND THERMOSTAT SHOWN IN SPACE. SYSTEM SHALL BE INTERLOCKED WITH TOUCH SCREEN SYSTEM FOR MANUAL OPERATION, REFER TO E401. REFER TO SEQUENCE OF OPERATIONS FOR ADDITIONAL CONTROL COMPONENTS TO BE MOUNTED HERE.

16 LOCATION OF MOTOR STARTER FOR SPEF-01. INSTALL TO ALL ADA REQUIREMENTS.

17 RECESSED MOUNTED UNIT HEATER 14" A.F.F.

18 PROVIDE INSULATED PLENUM. DEPTH SHALL BE A MINIMUM OF 36".

19 PROVIDE 72"X6" HINGED SECURITY ACCESS DOOR WITH KEYED ACCESS. CONTRACTOR SHALL ALIGN ACCESS DOOR UNDER FILER ACCESS OF ASSOCIATED UNIT ABOVE. MATCH FRAME AND ACCESS DOOR WITH CEILING. REFERENCE ARCHITECTURAL REFLECTIVE CEILING PLANS AND ROOM FINISH SCHEDULE. TYPICAL ALL VRF UNITS INSTALLED ABOVE SECURITY CEILING.

20 PROVIDE THERMISTOR IN SUPPLY DUCT OF VRF DUCTED UNIT. THERMISTOR SHALL BE MAPPED BACK TO BAS. TYPICAL ALL DUCTED VRF UNITS.

21 BOTTOM OF UNIT HEATER 8'-0" A.F.F.

GENERAL NOTES:

1 REFER TO MP000 FOR GENERAL HVAC NOTES, ABBREVIATIONS, AND SYMBOLS.

2 FURNISH AND INSTALL SECURITY BARRIER AS DETAILED IN ALL WALL, FLOOR, OR ROOF PENETRATION GREATER THAN 8"X8" IN SECURE AREA.

3 PROVIDE SMOKE DETECTORS IN ALL SECURITY RETURN AIR AND EXHAUST AIR GRILLES WHERE ACCESSIBLE.

4 ALL RADIUS TURNS SHALL BE SMOOTH WALL WITH A RADIUS OF R=1.5D.

5 ALL SUPPLY AND RETURN DIFFUSERS ARE TYPE 'S1'/'SR1' SECURITY DIFFUSERS IN CELLS/HOLDING AREAS. AND 'S2'/'SR2' IN DETENTION DAYROOMS UNLESS SPECIFIED OTHERWISE.

6 SECURITY GRILLES LOCATED IN TECTUM LAY-IN CEILINGS SHALL BE SIZE SO FLANGE WILL ATTACH TO TECTUM TRACK. TECTUM TRACK TO NEVER BE CUT.

7 COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT OR DUCTWORK.

8 ALL DUCTWORK SHALL BE CONSTRUCTED TO PREVENT DEFLECTION OG GREATER THAN 0.125" AT 4" WC OF POSITIVE OR NEGATIVE PRESSURE.

9 ALL SHEET METAL DUCTWORK PENETRATING FIRE RATED WALLS SHALL BE MINIMUM OF 26 GAUGE. ALL OTHER DUCT SHALL BE CONSTRUCTED AS SPECIFIED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARD".

10 DOUBLE NUT LOCK DOWN FOR MULTI-VANE DAMPERS INSTALLED IN HIGH VELOCITY DUCTWORK/SMOKE REMOVAL DUCTWORK.

11 PROVIDE RADIUS FITTINGS FOR ALL DUCTWORK, WHERE NOT POSSIBLE SINGLE WALL TURNING VANES IN 30-45 DEG. TURNS IN DUCTWORK. TURNS GREATER THAN 45 DEG. SHALL BE DOUBLE WALL.

12 SECURITY GRILLES LOCATED IN CELL CHASE WALLS SHALL BE MOUNTED AT 7'-0" A.F.F. BOTTOM OF GRILLE.

13 ALL AIR DEVICES SHALL HAVE MANUAL BALANCING DAMPERS AS INDICATED IN SPECIFICATIONS FOR BALANCING.

14 PROVIDE SECURITY HOLD DOWN CLIPS AND TAMPER PROOF SCREWS (TYPICAL) AT SECURED CEILINGS.

15 HVAC SYSTEM SHALL BE BALANCED IN SMOKE PURGE MODE WITH FLOW DATA VALUES REPORTED IN NORMAL OPERATION.

16 CONTRACT DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL MECHANICAL MATERIAL PER SMACNA STANDARDS.

17 INSTALL RETURN AIR SENSORS IN RETURN AIR DUCTS FOR CONTROLLING AHU's SERVING DETENTION AREAS. CONTROLS SHALL BE LOCATED IN CLUSTER CONTROL STATION 2011 . COORDINATE EXACT LOCATION WITH ARCHITECTS AND OWNER.

18 ALL GRILLES INSTALLED IN PLANK CEILINGS SHALL BE INSTALLED CENTERED BETWEEN PLANKS.

19 IF CABLE DAMPERS ARE USED, LOCATE IN NEAREST PLUMBING CHASE OR CLOSET. ALL CABLE DAMPERS SHALL HAVE AN IDENTIFICATION TAG INDICATING CELL, SUPPLY/RETURN, AND LOCATION OF DAMPER.

20 INSTALL CARBON MONOXIDE AND NITROGEN DIOXIDE SENSORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN LOCATIONS APPROVED BY THE ARCHITECT.

21 NO PVC IN RETURN AIR PLENUM. ALL MATERIAL MUST BE PLENUM RATED FOR SMOKE AND FIRE SPREAD.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
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Security: LattaTech (972) 633-5850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

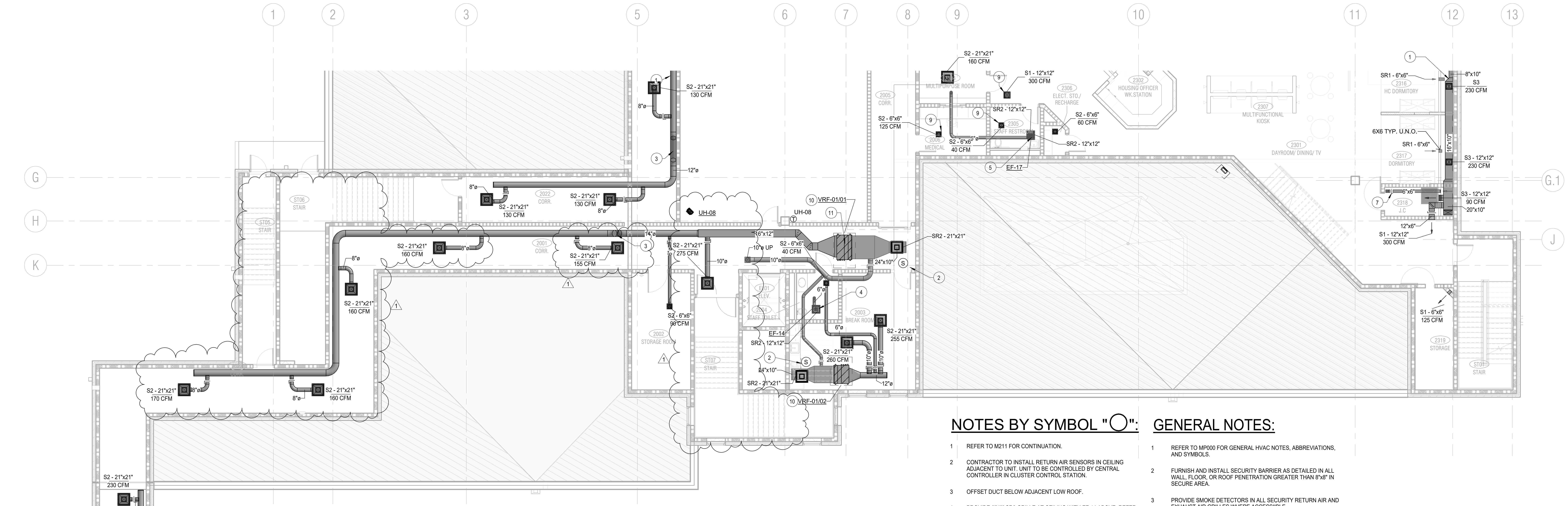
#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

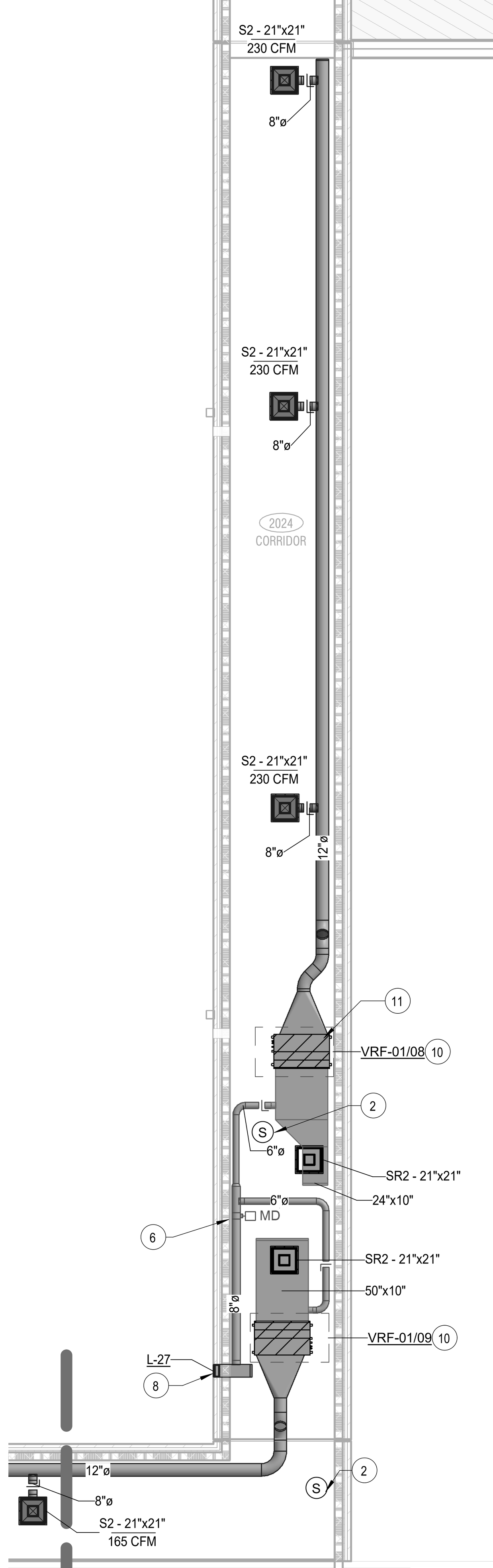
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST FLOOR PLAN - DUCTWORK

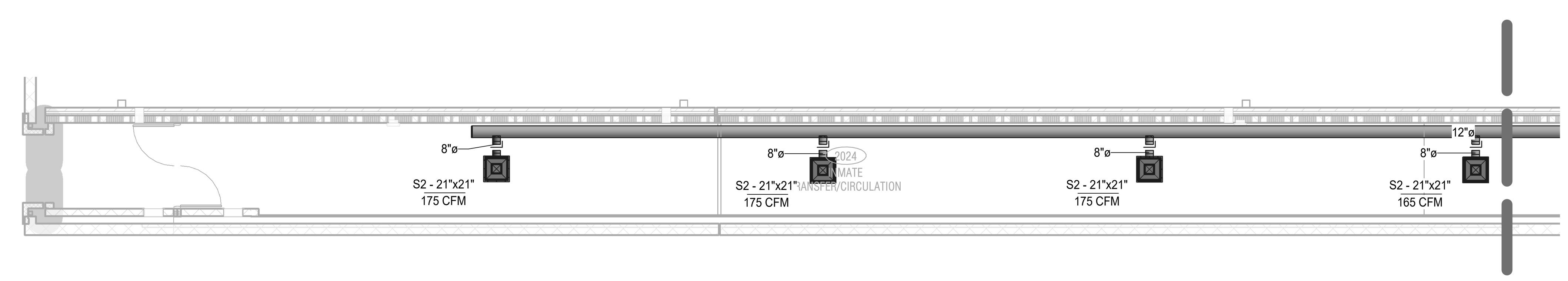
21913
07/13/2021
M202

FOR BID





1 LEVEL 1 WEST FLOOR PLAN - DUCTWORK
1/8" = 1'-0"



2 LEVEL 1 WEST FLOOR PLAN CONT - DUCTWORK
1/8" = 1'-0"

NOTES BY SYMBOL "◯":

1 REFER TO M211 FOR CONTINUATION.

2 CONTRACTOR TO INSTALL RETURN AIR SENSORS IN CEILING ADJACENT TO UNIT. UNIT TO BE CONTROLLED BY CENTRAL CONTROLLER IN CLUSTER CONTROL STATION.

3 OFFSET DUCT BELOW ADJACENT LOW ROOF.

4 PROVIDE 6"X6" SR2 GRILLE AT CEILING WITH EF-14 ABOVE. REFER TO EXHAUST FAN-CEILING TYPE DETAIL.

5 PROVIDE 6"X6" SR2 GRILLE AT CEILING WITH EF-17 ABOVE. REFER TO EXHAUST FAN-CEILING TYPE DETAIL.

6 MOTORIZED DAMPER SHALL OPEN WHEN EITHER OF THE ASSOCIATED UNITS ARE ENERGIZED.

7 BALANCE EXHAUST DAMPER TO 80 CFM.

8 PROVIDE INSULATED PLENUM. DEPTH SHALL BE A MINIMUM OF 36".

9 REFER TO M221 FOR CONTINUATION. TYPICAL ALL DIFFUSERS/GRILLES WITHIN SPACE.

10 PROVIDE 72"X6" HINGED SECURITY ACCESS DOOR WITH KEYED ACCESS. CONTRACTOR SHALL ALIGN ACCESS DOOR UNDER FILER ACCESS OF ASSOCIATED UNIT ABOVE. MATCH FRAME AND ACCESS DOOR WITH CEILING. REFERENCE ARCHITECTURAL REFLECTIVE CEILING PLANS AND ROOM FINISH SCHEDULE. TYPICAL ALL VRF UNITS INSTALLED ABOVE SECURITY CEILING.

11 PROVIDE THERMISTOR IN SUPPLY DUCT OF VRF DUCTED UNIT. THERMISTOR SHALL BE MAPPED BACK TO BAS. TYPICAL ALL DUCTED VRF UNITS.

GENERAL NOTES:

1 REFER TO MP000 FOR GENERAL HVAC NOTES, ABBREVIATIONS, AND SYMBOLS.

2 FURNISH AND INSTALL SECURITY BARRIER AS DETAILED IN ALL WALL, FLOOR, OR ROOF PENETRATION GREATER THAN 8"x8" IN SECURE AREA.

3 PROVIDE SMOKE DETECTORS IN ALL SECURITY RETURN AIR AND EXHAUST AIR GRILLES WHERE ACCESSIIBLE .

4 ALL RADIUS TURNS SHALL BE SMOOTH WALL WITH A RADIUS OF R=1.5D.

5 ALL SUPPLY AND RETURN DIFFUSERS ARE TYPE 'S1'/'SR1' SECURITY DIFFUSERS IN CELLS/HOLDING AREAS. AND 'S2'/'SR2' IN DETENTION DAYROOMS UNLESS SPECIFIED OTHERWISE.

6 SECURITY GRILLES LOCATED IN TECTUM LAY-IN CEILINGS SHALL BE SIZE SO FLANGE WILL ATTACH TO TECTUM TRACK.TECTUM TRACK TO NEVER BE CUT.

7 COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT OR DUCTWORK.

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GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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BRINKLEY SARGENT WIGINTON ARCHITECTS

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Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
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COLLIN COUNTY ADF - PHASE 1 ADDTION

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HISTORY

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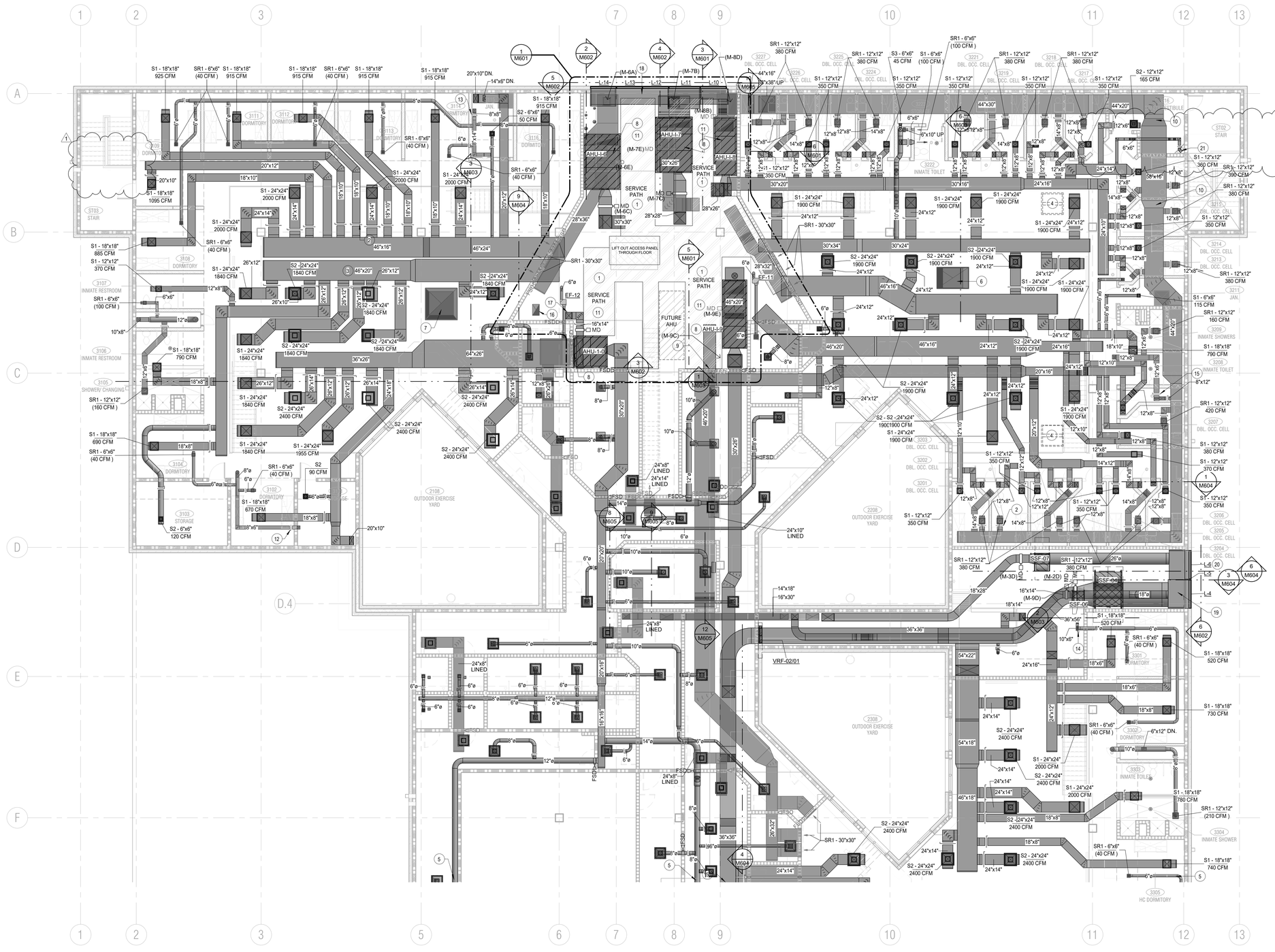
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

LEVEL 1 WEST FLOOR PLAN - DUCTWORK

21913
07/13/2021
M212

FOR BID


SR1 - 12"x12" 380 CFM
SR1 - 6"x6" (100 CFM)
S1 - 18"x18" 925 CFM
SR1 - 6"x6" (40 CFM)
S1 - 18"x18" 915 CFM
S1 - 18"x18" 1095 CFM
S1 - 18"x18" 685 CFM
S1 - 12"x12" 370 CFM
S1 - 18"x18" 790 CFM
S1 - 18"x18" 690 CFM
S2 90 CFM
S2 - 6"x6" 120 CFM
S2 - 6"x6" 50 CFM
S1 - 24"x24" 2000 CFM
S1 - 24"x24" 1840 CFM
S2 -24"x24" 1840 CFM
S2 - 24"x24" 1840 CFM
S1 - 24"x24" 1955 CFM
S2 - 24"x24" 2400 CFM
S1 - 18"x18" 670 CFM
S1 - 12"x12" 160 CFM
S1 - 18"x18" 915 CFM
S1 - 18"x18" 915 CFM
S1 - 18"x18" 915 CFM
S1 - 18"x18" 915 CFM
S1 - 18"x18" 915 CFM
S2 - 6"x6" 50 CFM
S1 - 6"x6" (40 CFM)
S1 - 24"x24" 2000 CFM
S1 - 24"x24" 2000 CFM
S1 - 24"x24" 2000 CFM
S1 - 30"x30"
S2 -24"x24" 1840 CFM
S2 - 24"x24" 1840 CFM
S2 - 24"x24" 1840 CFM
S1 - 24"x24" 1840 CFM
S2 - 24"x24" 2400 CFM
S2 - 24"x24" 2400 CFM
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S2 - 24"x24" 2400 CFM
S1 - 24"x24" 1840 CFM
S2 - 24"x24" 2400 CFM
S1 - 24"x24" 1900 CFM
S2 - 24"x24" 1900 CFM
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S1 - 24"x24" 1900 CFM
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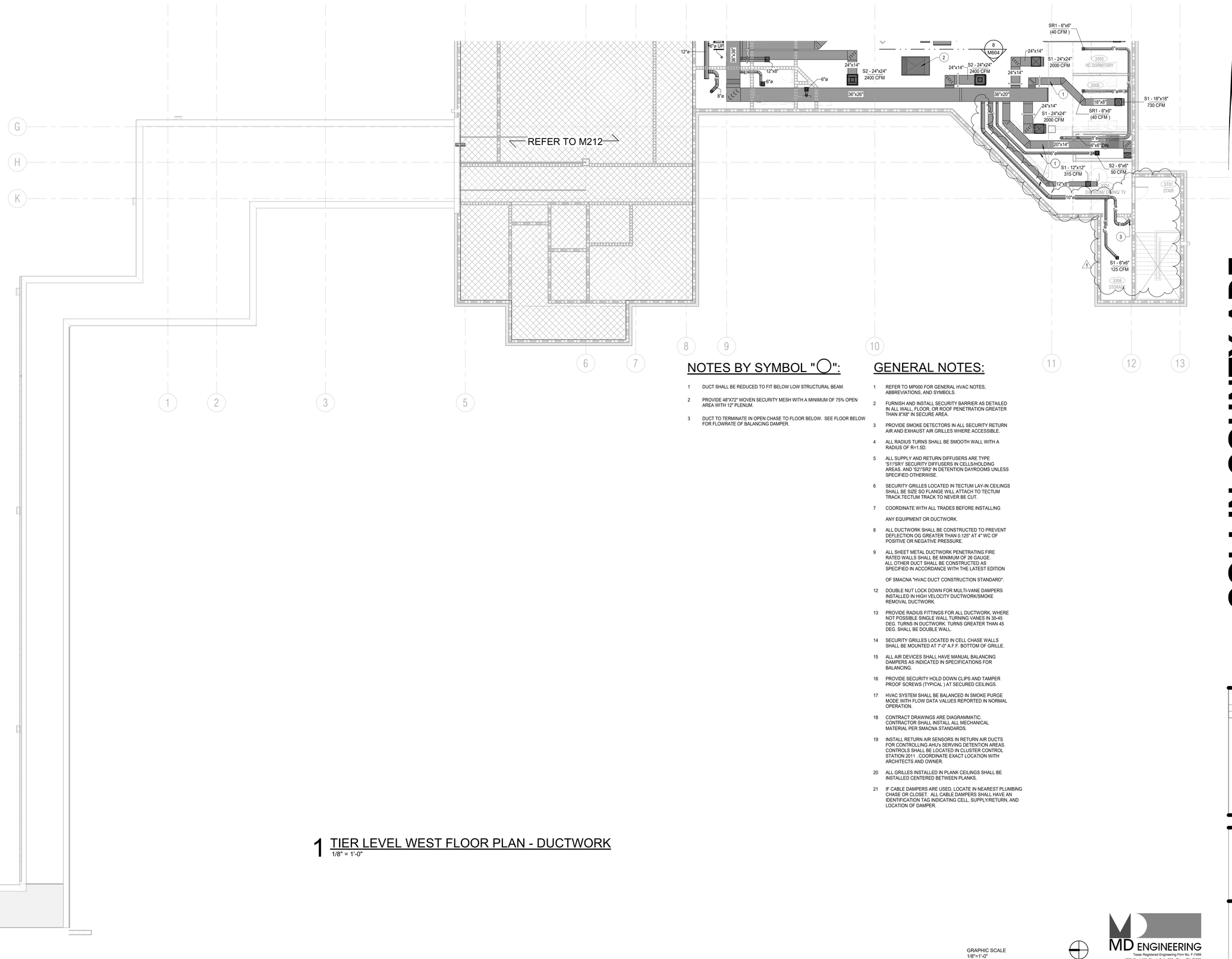
S1 - 12"x12" 350



NOTES BY SYMBOL "◯":

1 DUCT SHALL BE REDUCED TO FIT BELOW LOW STRUCTURAL BEAM.

2 PROVIDE 48"X72" WOVEN SECURITY MESH WITH A MINIMUM OF 75% OPEN AREA WITH 12" PLENUM.

3 DUCT TO TERMINATE IN OPEN CHASE TO FLOOR BELOW. SEE FLOOR BELOW FOR FLOWRATE OF BALANCING DAMPER.

GENERAL NOTES:

1 REFER TO MP000 FOR GENERAL HVAC NOTES, ABBREVIATIONS, AND SYMBOLS.

2 FURNISH AND INSTALL SECURITY BARRIER AS DETAILED IN ALL WALL, FLOOR, OR ROOF PENETRATION GREATER THAN 8"X8" IN SECURE AREA.

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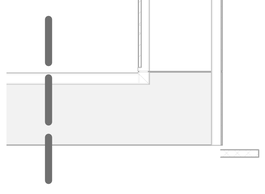

1 TIER LEVEL WEST FLOOR PLAN - DUCTWORK
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

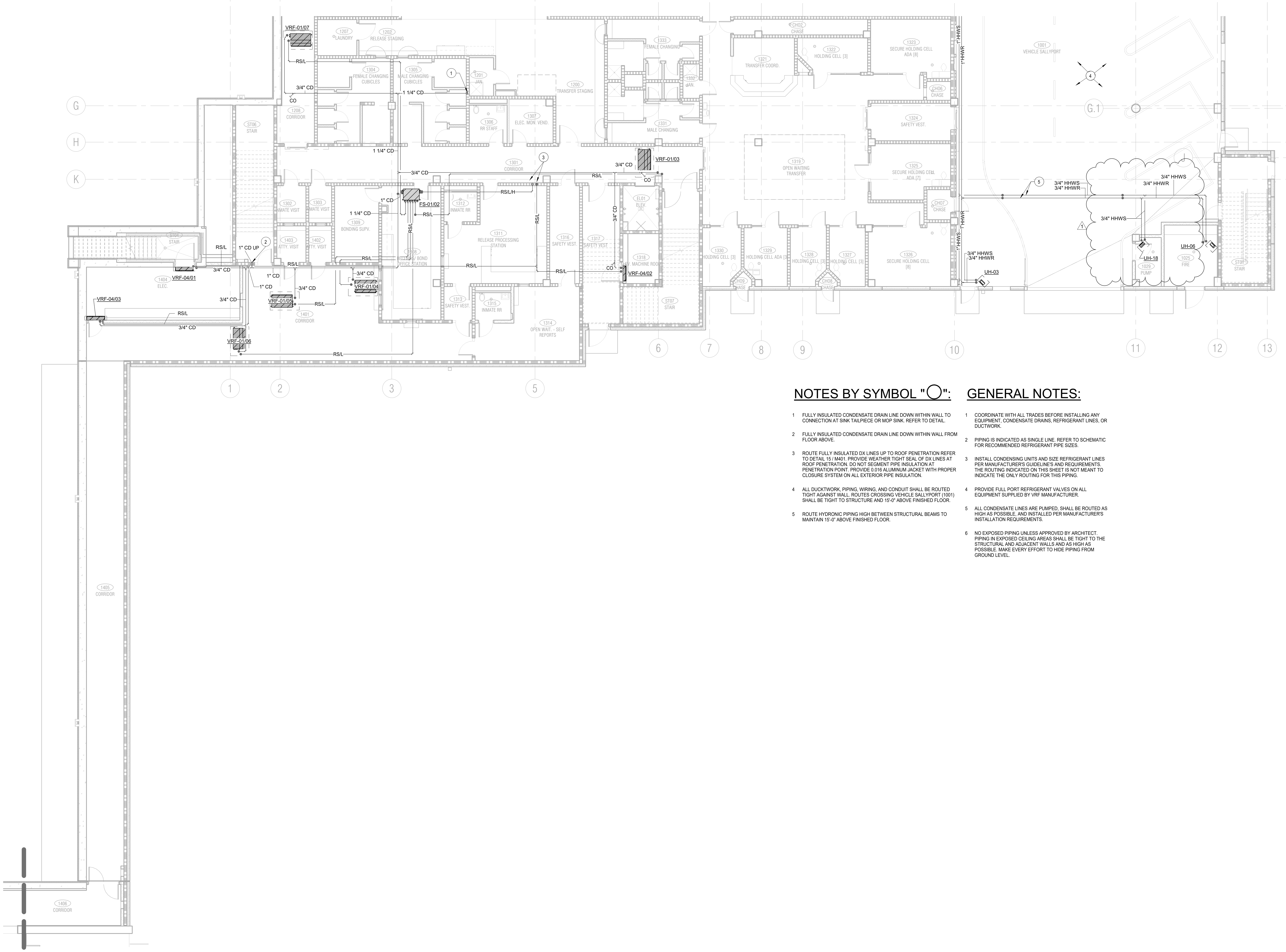
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

TIER LEVEL WEST FLOOR PLAN - DUCTWORK

FOR BID

21913
07/13/2021
M222

Brinkley Sargent Wiginton Architects, Inc.



1 LOWER LEVEL WEST FLOOR PLAN - HVAC PIPING
1/8" = 1'-0"

NOTES BY SYMBOL "○":

1 FULLY INSULATED CONDENSATE DRAIN LINE DOWN WITHIN WALL TO CONNECTION AT SINK TAILPIECE OR MOP SINK. REFER TO DETAIL.

2 FULLY INSULATED CONDENSATE DRAIN LINE DOWN WITHIN WALL FROM FLOOR ABOVE.

3 ROUTE FULLY INSULATED DX LINES UP TO ROOF PENETRATION REFER TO DETAIL 15 / M401. PROVIDE WEATHER TIGHT SEAL OF DX LINES AT ROOF PENETRATION. DO NOT SEGMENT PIPE INSULATION AT PENETRATION POINT. PROVIDE 0.016 ALUMINUM JACKET WITH PROPER CLOSURE SYSTEM ON ALL EXTERIOR PIPE INSULATION.

4 ALL DUCKTWORK, PIPING, WIRING, AND CONDUIT SHALL BE ROUTED TIGHT AGAINST WALL. ROUTES CROSSING VEHICLE SALLYPORT (1001) SHALL BE TIGHT TO STRUCTURE AND 15'-0" ABOVE FINISHED FLOOR.

5 ROUTE HYDRONIC PIPING HIGH BETWEEN STRUCTURAL BEAMS TO MAINTAIN 15'-0" ABOVE FINISHED FLOOR.

GENERAL NOTES:

1 COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT, CONDENSATE DRAINS, REFRIGERANT LINES, OR DUCTWORK.

2 PIPING IS INDICATED AS SINGLE LINE. REFER TO SCHEMATIC FOR RECOMMENDED REFRIGERANT PIPE SIZES.

3 INSTALL CONDENSING UNITS AND SIZE REFRIGERANT LINES PER MANUFACTURER'S GUIDELINE'S AND REQUIREMENTS. THE ROUTING INDICATED ON THIS SHEET IS NOT MEANT TO INDICATE THE ONLY ROUTING FOR THIS PIPING.

4 PROVIDE FULL PORT REFRIGERANT VALVES ON ALL EQUIPMENT SUPPLIED BY VRF MANUFACTURER.

5 ALL CONDENSATE LINES ARE PUMPED, SHALL BE ROUTED AS HIGH AS POSSIBLE, AND INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

6 NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT. PIPING IN EXPOSED CEILING AREAS SHALL BE TIGHT TO THE STRUCTURAL AND ADJACENT WALLS AND AS HIGH AS POSSIBLE. MAKE EVERY EFFORT TO HIDE PIPING FROM GROUND LEVEL.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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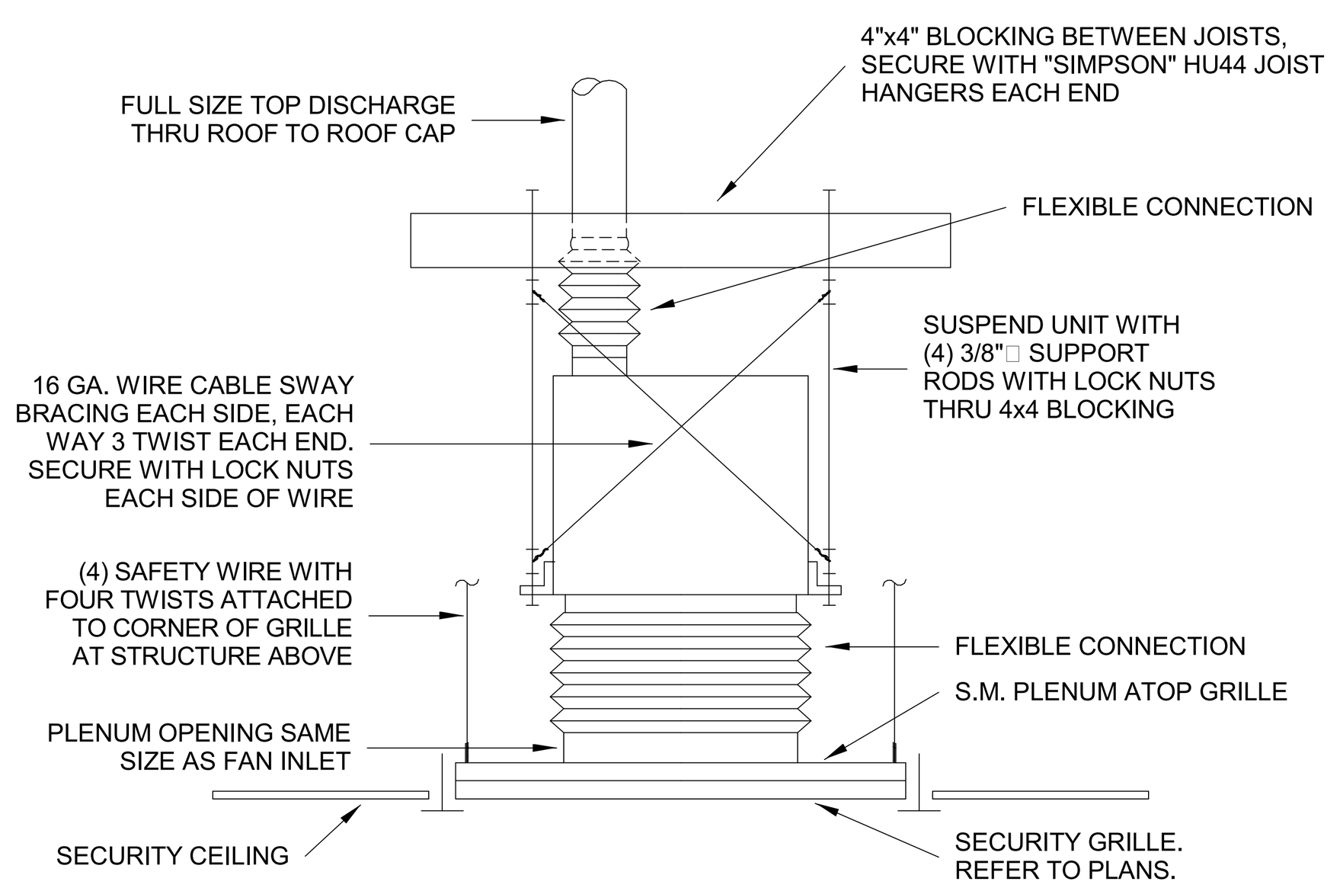
LICENSED PROFESSIONAL ENGINEER
8/18/21

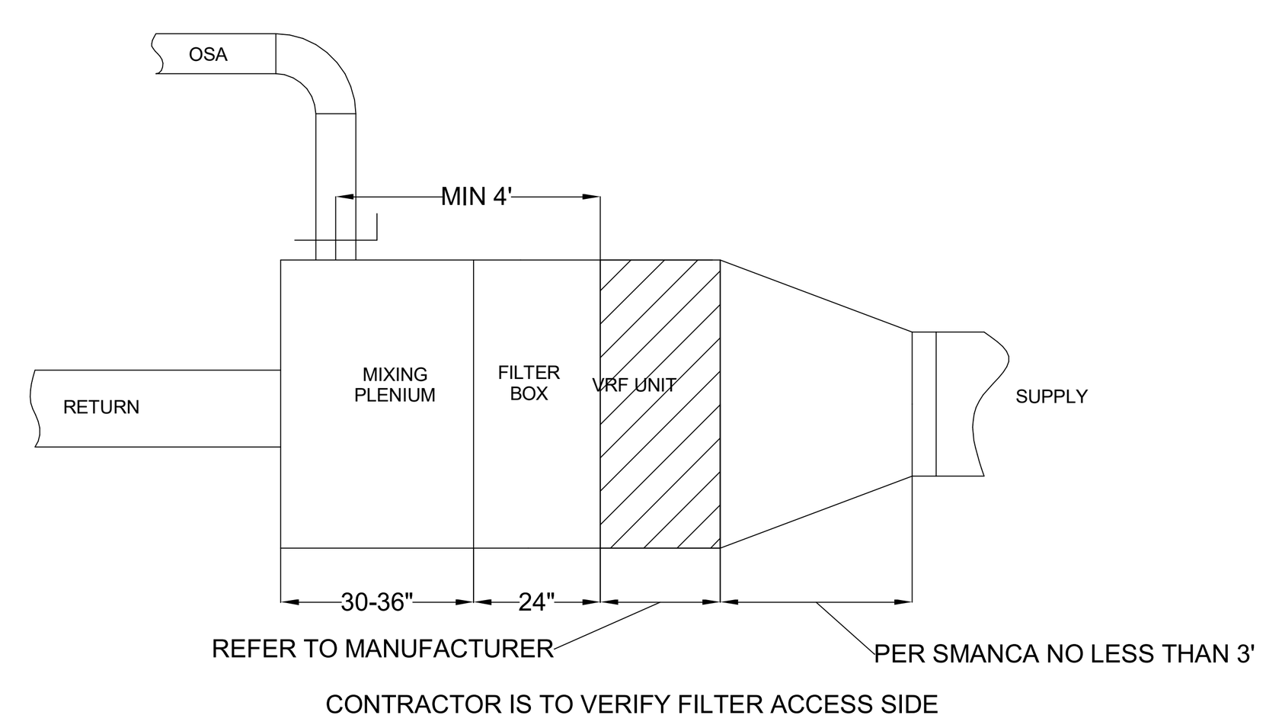
LOWER LEVEL WEST FLOOR PLAN - HVAC PIPING

21913
07/13/2021
M302

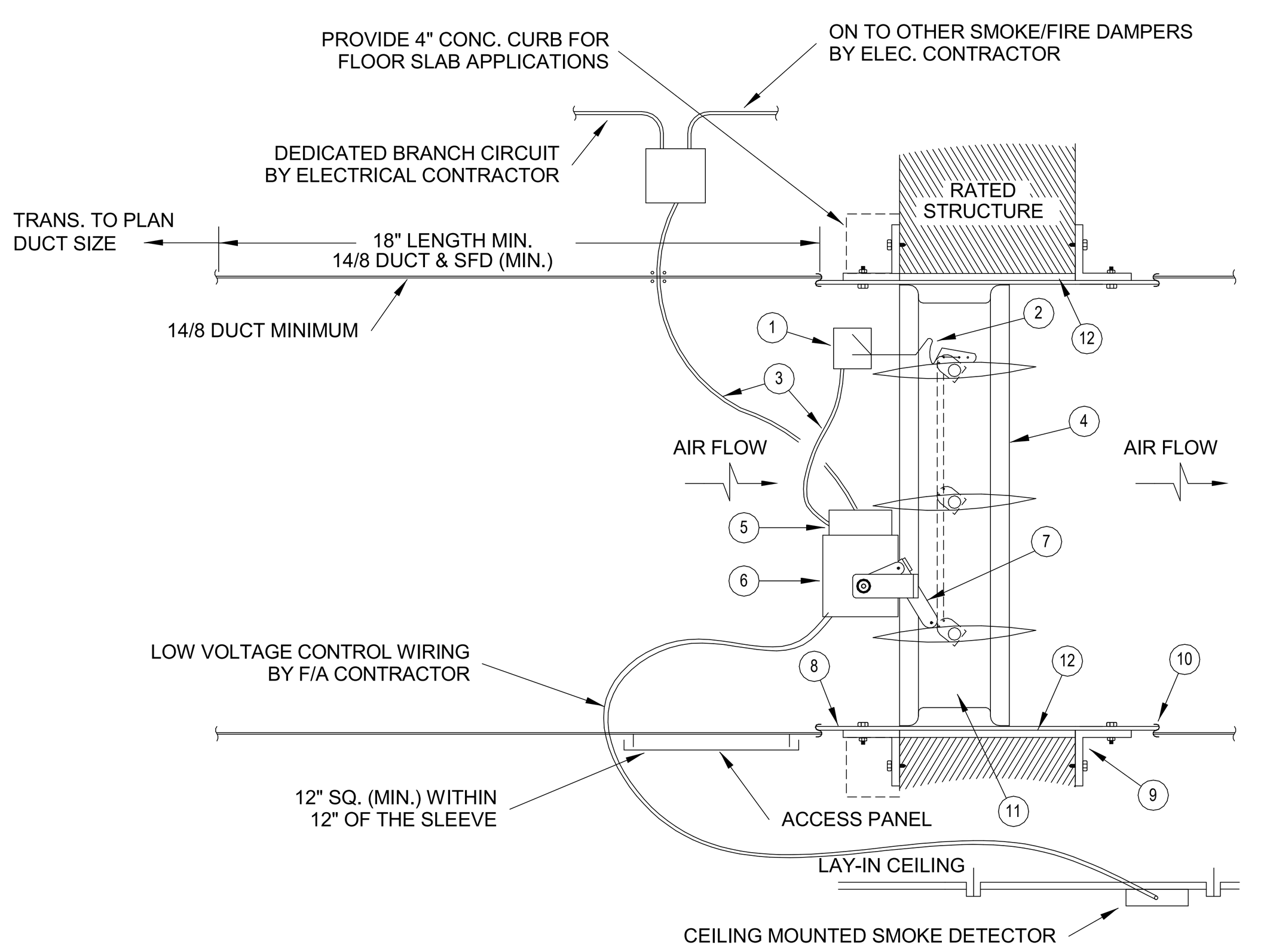
FOR BID



04 EXHAUST FAN – CEILING TYPE | SCALE: NTS



03 VRF FILTER BOX OUTSIDE AIR | SCALE: NTS



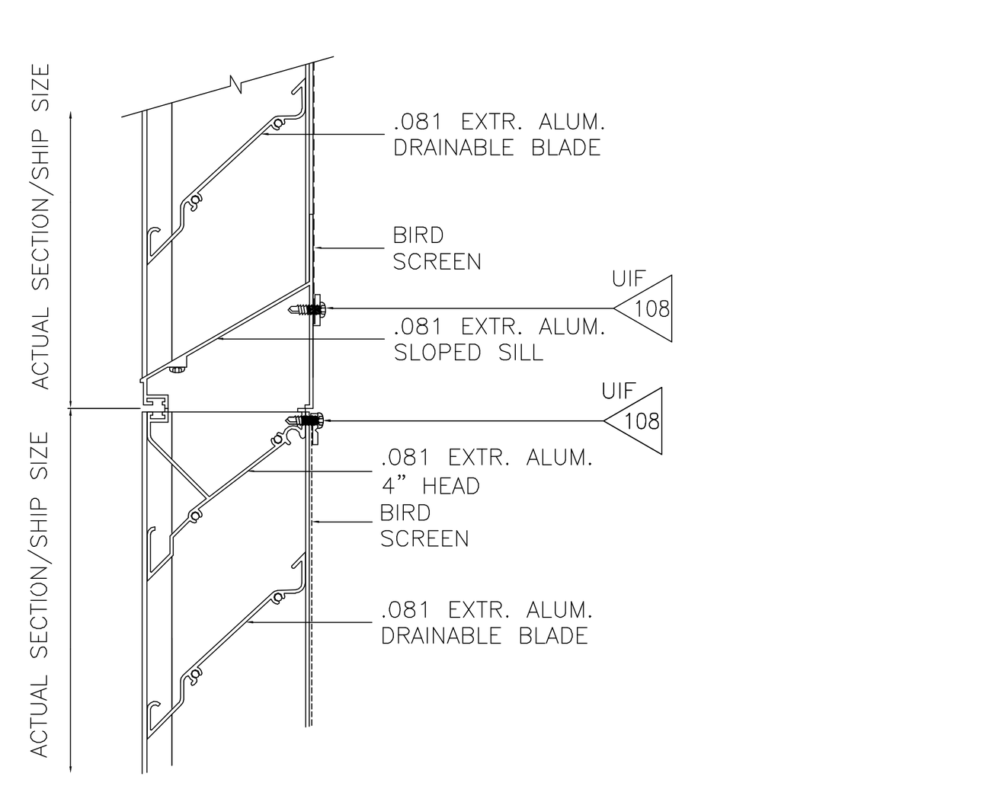
NOTES BY SYMBOL:
1. TS-150 FIRESTAT
2. ADJUSTABLE CONNECTING ROD
3. METAL FLEX CONDUIT BY E.C.
4. DAMPER FRAME
5. JUNCTION BOX (E.C. SHALL NOT CONNECT TO GENERAL POWER)
6. OPERATOR/ACTUATOR
7. OVER CENTER LOCK
8. SLEEVE
9. MOUNTING ANGLES (16 GA. (MIN.) STEEL ANGLE 1-1/2"x1-1/2")
10. SLEEVE TO DUCT CONNECTION WITH S-LINKS.
11. FIRE/SMOKE DAMPER SHALL BE THE SAME SIZE AS THE DUCTWORK (U.N.O.)
12. MINERAL WOOL BETWEEN SLEEVE AND STRUCTURE. 1/2" MAXIMUM CLEARANCE BETWEEN SLEEVE AND RATED WALL OPENING.

THE TS150 FIRESTAT SYSTEM, USED IN CONJUNCTION WITH A COMBINATION FIRE SMOKE DAMPER, CLOSES AND LOCKS THE DAMPER WHEN TEMPERATURES IN EXCESS OF 212°F (165°F OPTIONAL) ARE DETECTED. THE SYSTEM IS EQUIPPED WITH SMOKE DETECTION. THE DAMPER CLOSES AND REMAINS CLOSED AS LONG AS A SMOKE SIGNAL IS PRESENT. ONCE THE SMOKE SIGNAL CEASES, THE SYSTEM AUTOMATICALLY RESETS AND THE DAMPER OPENS.

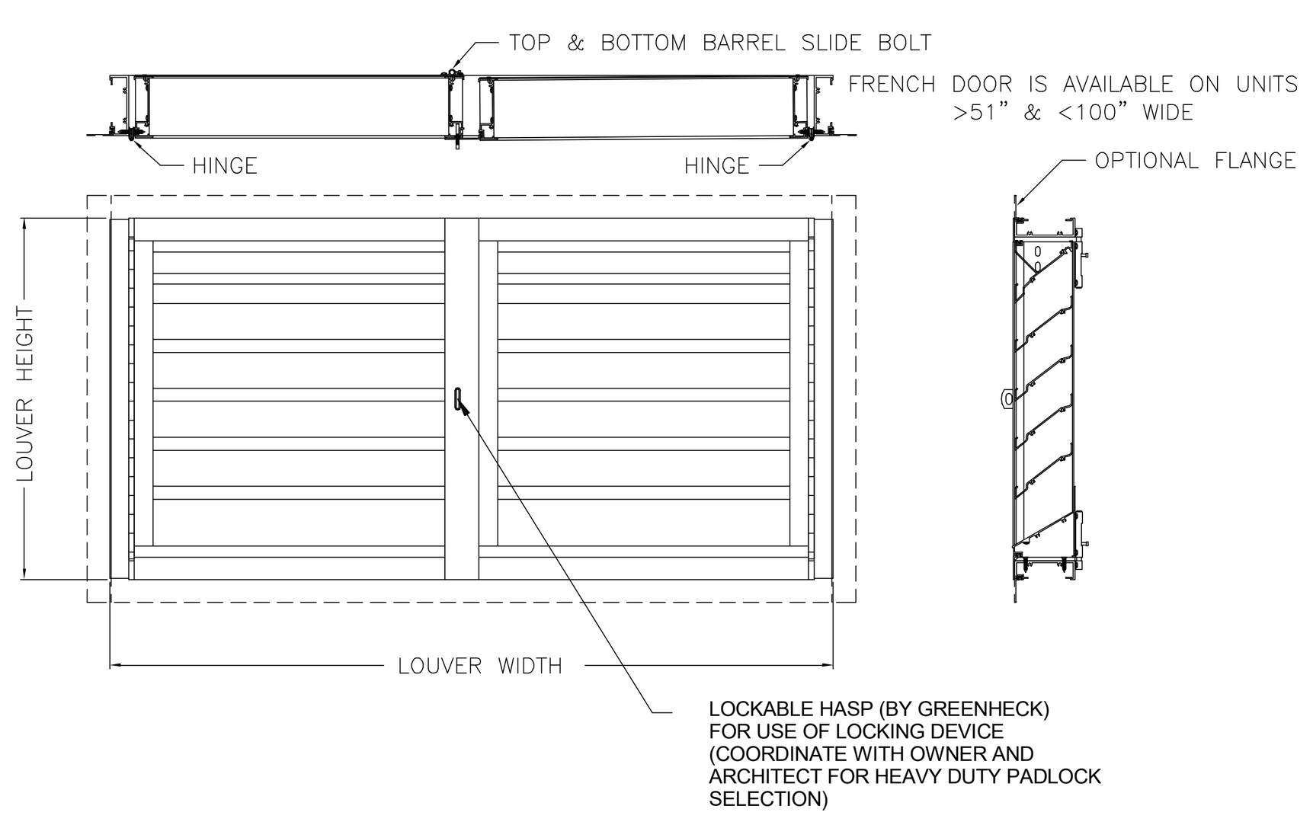
DAMPER CONFIGURATION UTILIZED FOR DUCTWORK SMALLER THAN 16X16 AND PENETRATING DUCT SERVES ADJACENT SPACE. CEILING MOUNTED SMOKE DETECTOR SHALL BE INSTALLED IN SPACE DUCTWORK IS SERVING.

NOTES:
1) BASED ON RUSKIN (UL 555S) CLASS 11 MIN. LEAK RATING.
2) TYPICAL FOR HORIZONTAL AND VERTICAL APPLICATIONS.

05 COMBINATION FIRE/SMOKE DAMPER | SCALE: NTS



07 VERTICAL MULTI-LOUVER CONN. | SCALE: NTS

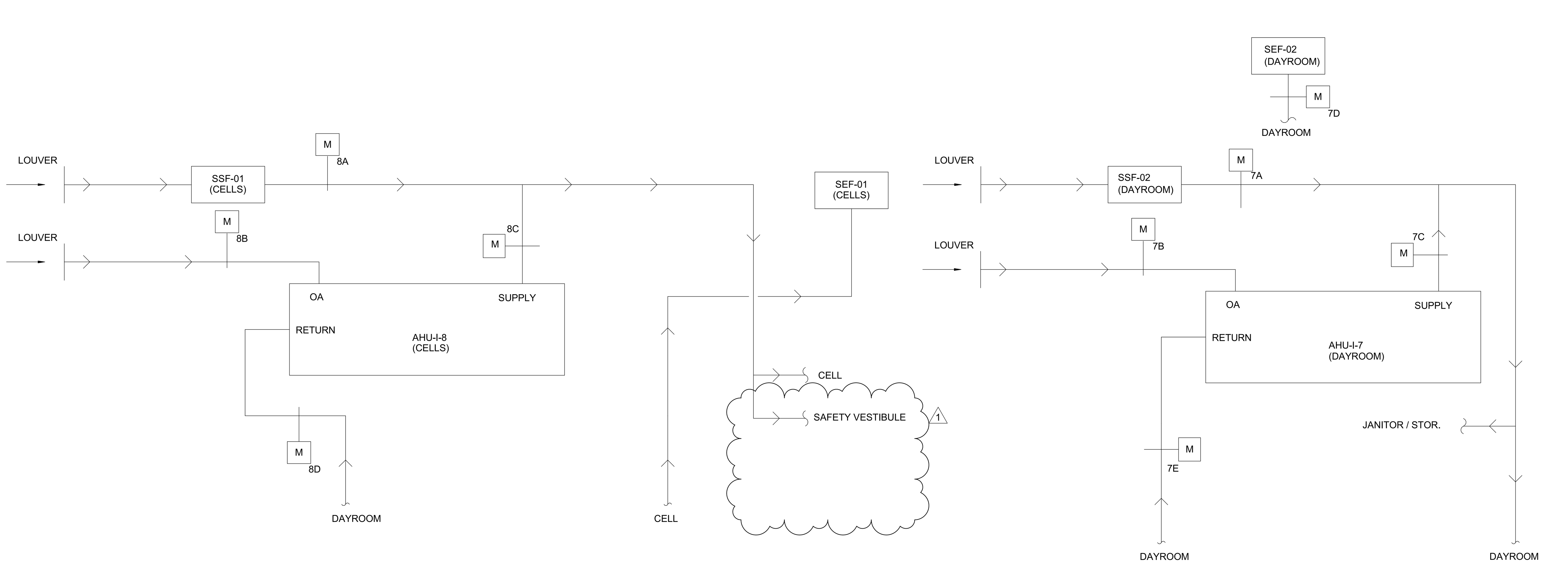


06 HINGED FRENCH DOOR LOUVER | SCALE: NTS

SMOKE REMOVAL CONTROL MATRIX - AHU-I-7 & AHU-I-8

MODE	DESCRIPTION	AHU-I-8 (CELLS)	AHU-I-7 (DAYROOM)	SSF-01 (CELLS)	SSF-02 (DAYROOM)	SEF-01 (CELLS)	SEF-02 (DAYROOM)	M-8A	M-8B	M-8C	M-8D	NOT USED	M-7A	M-7B	M-7C	M-7D	M-7E	M-7F
A	NORMAL OPERATION	ON	ON	OFF	OFF	OFF	OFF	CLOSED	OPEN	OPEN	OPEN	-	CLOSED	OPEN	OPEN	CLOSED	OPEN	OPEN
B	SMOKE REMOVAL - DAYROOM	ON	OFF	OFF	ON	OFF	ON	CLOSED	OPEN	OPEN	OPEN	-	OPEN	CLOSED	CLOSED	OPEN	CLOSED	CLOSED
C	SMOKE REMOVAL - CELL	OFF	ON	ON	OFF	ON	OFF	OPEN	CLOSED	CLOSED	CLOSED	-	CLOSED	OPEN	OPEN	CLOSED	OPEN	OPEN
D	SMOKE REMOVAL -DAYROOM/CELL	OFF	OFF	ON	ON	ON	ON	OPEN	CLOSED	CLOSED	CLOSED	-	OPEN	CLOSED	CLOSED	OPEN	CLOSED	CLOSED

NOTES:
1. CONTROL DAMPERS SHALL BE LOW LEAKAGE AT 6 IN W.C.



01 SMOKE REMOVAL SCHEMATIC – CELLS / DAYROOM | SCALE: NTS

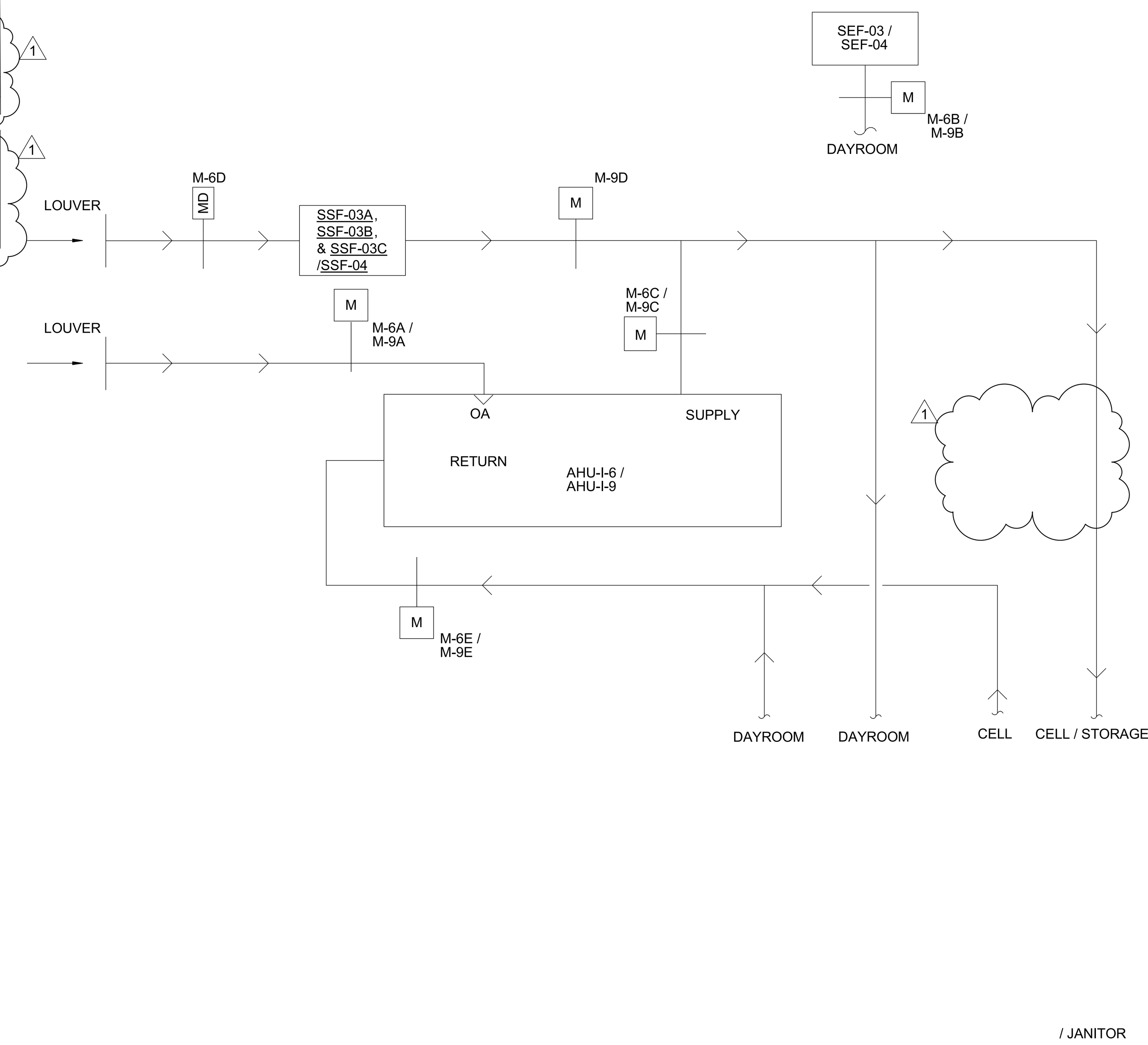
SMOKE REMOVAL CONTROL MATRIX - AHU-I-6

MODE	DESCRIPTION	AHU-I-6	SSF-03A, SSF-03B, & SSF-03C	SEF-03	M-6A	M-6B	M-6C	M-6D	M-6E	NOT USED
E	NORMAL OPERATION	ON	OFF	OFF	OPEN	CLOSED	OPEN	CLOSED	OPEN	-
F	SMOKE REMOVAL	OFF	ON	ON	CLOSED	OPEN	CLOSED	OPEN	CLOSED	-

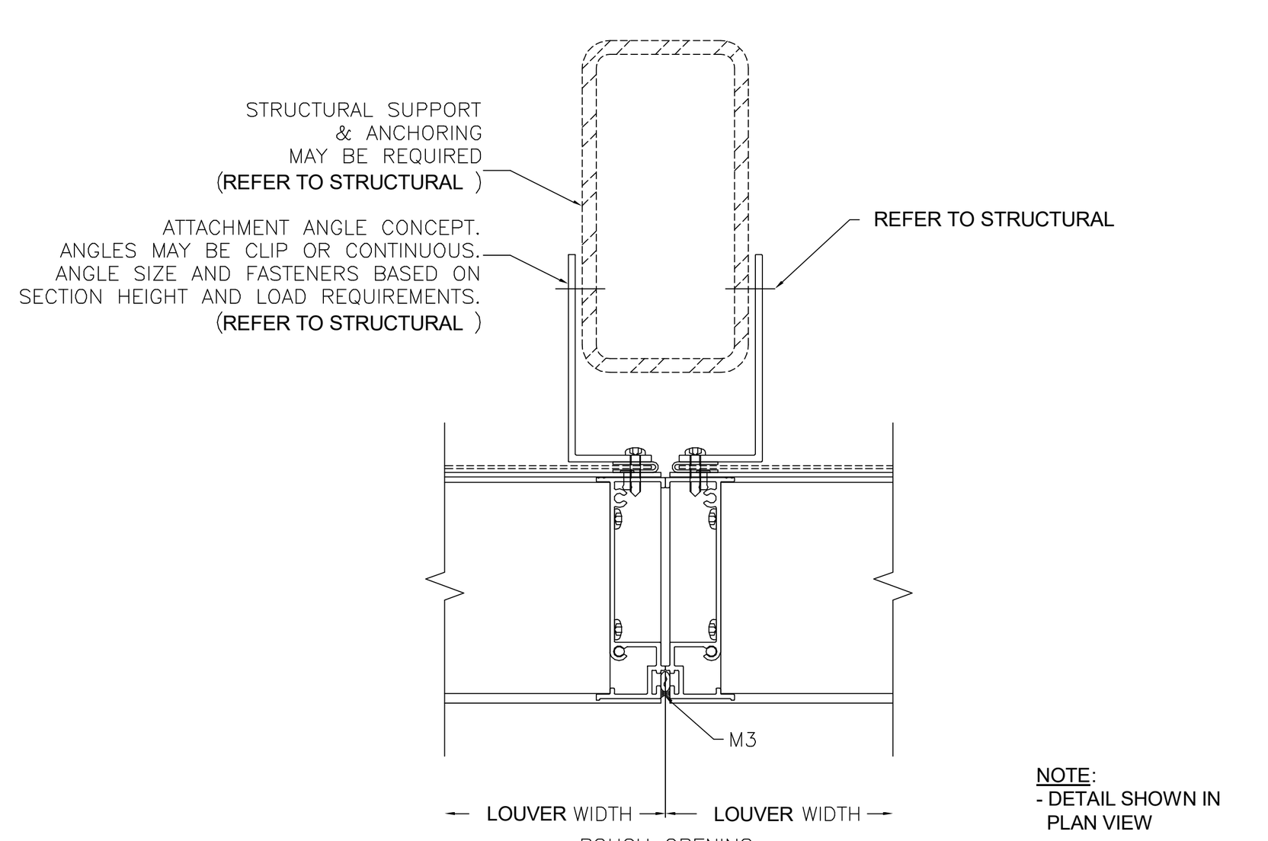
SMOKE REMOVAL CONTROL MATRIX - AHU-I-9

MODE	DESCRIPTION	AHU-I-9	SSF-04	SEF-04	M-9A	M-9B	M-9C	M-9D	M-9E	NOT USED
G	NORMAL OPERATION	ON	OFF	OFF	OPEN	CLOSED	OPEN	CLOSED	OPEN	-
H	SMOKE REMOVAL	OFF	ON	ON	CLOSED	OPEN	CLOSED	OPEN	CLOSED	-

NOTES:
1. CONTROL DAMPERS SHALL BE LOW LEAKAGE AT 6 IN W.C.



02 SMOKE REMOVAL SCHEMATIC – DORM | SCALE: NTS



NOTE:
- DETAIL SHOWN IN PLAN VIEW

08 HORZ. MULTI-LOUVER CONN. | SCALE: NTS

SMOKE REMOVAL CONTROL MATRIX - CELL - AHU-I-1

MODE	DESCRIPTION	AHU-I-1	SSF-05	SEF-05	M-1A	M-1B	M-1C	M-1D	MODE
I	NORMAL OPERATION	ON	OFF	OFF	OPEN	OPEN	OPEN	CLOSED	A
J	SMOKE REMOVAL	OFF	ON	ON	CLOSED	CLOSED	CLOSED	OPEN	B

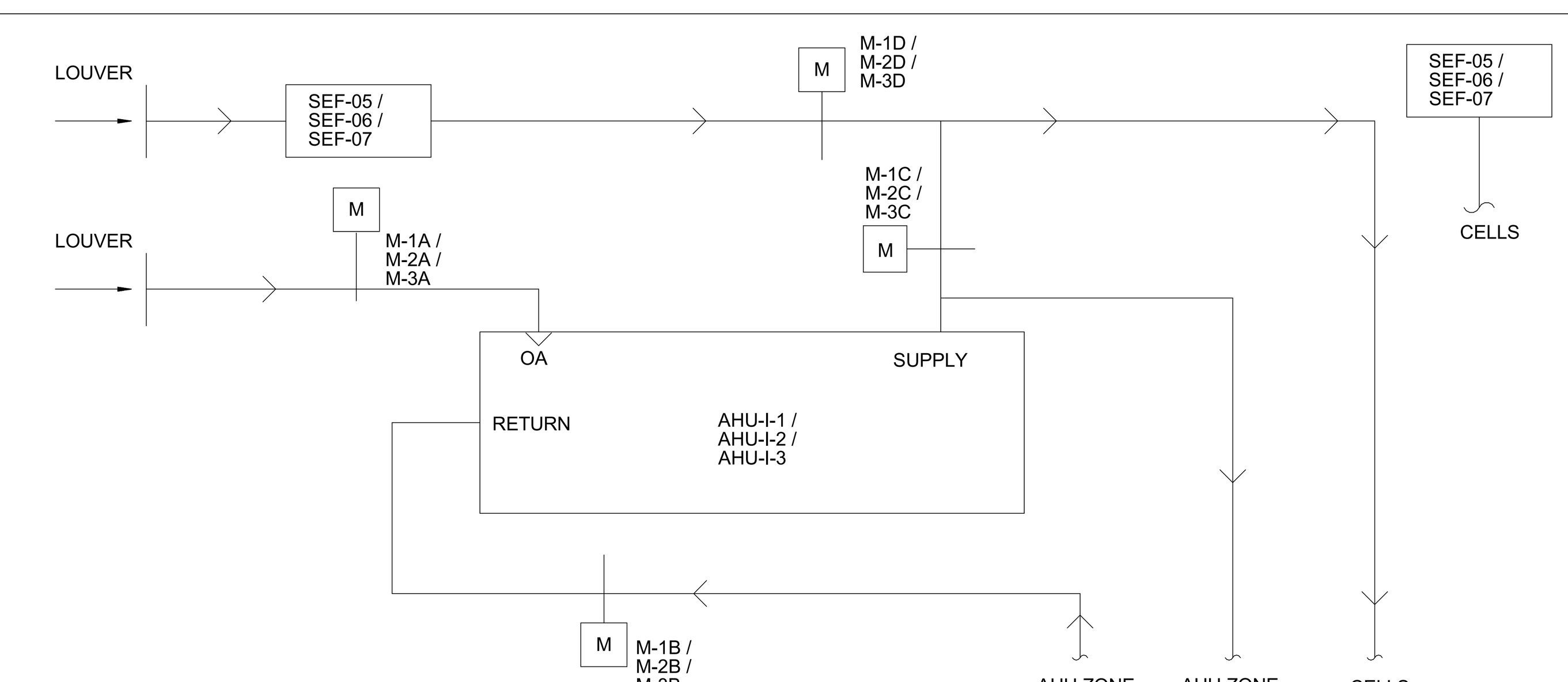
SMOKE REMOVAL CONTROL MATRIX - CELL - AHU-I-2

MODE	DESCRIPTION	AHU-I-2	SSF-06	SEF-06	M-2A	M-2B	M-2C	M-2D	MODE
K	NORMAL OPERATION	ON	OFF	OFF	OPEN	OPEN	OPEN	CLOSED	C
L	SMOKE REMOVAL	OFF	ON	ON	CLOSED	CLOSED	CLOSED	OPEN	D

SMOKE REMOVAL CONTROL MATRIX - CELL - AHU-I-3

MODE	DESCRIPTION	AHU-I-3	SSF-07	SEF-07	M-3A	M-3B	M-3C	M-3D	MODE
M	NORMAL OPERATION	ON	OFF	OFF	OPEN	OPEN	OPEN	CLOSED	E
N	SMOKE REMOVAL	OFF	ON	ON	CLOSED	CLOSED	CLOSED	OPEN	F

NOTES:
1. CONTROL DAMPERS SHALL BE LOW LEAKAGE AT 6 IN W.C.



04 SMOKE REMOVAL SCHEMATIC – CELLS | SCALE: NTS

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengco@md-eng.com Project No.: 201254

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

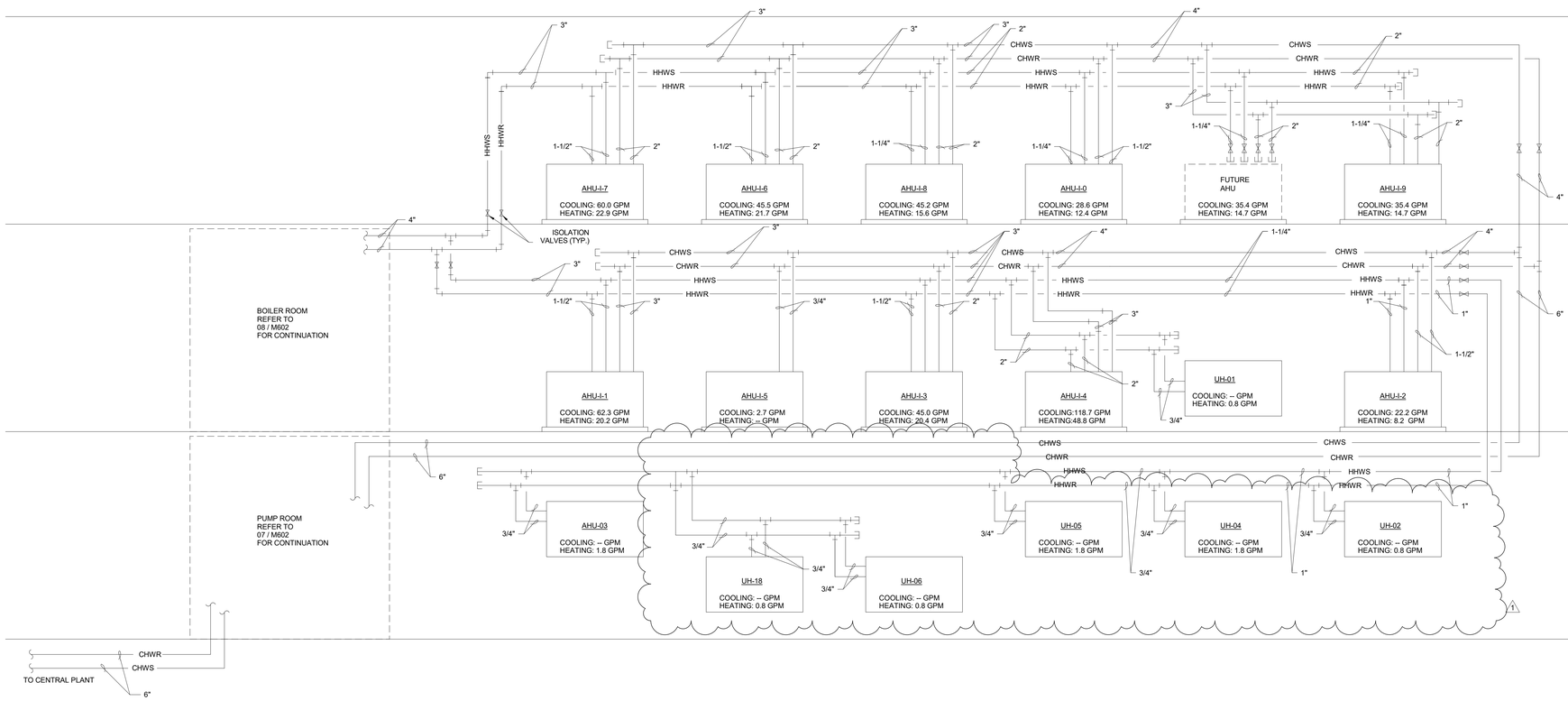
DETAILS - MECHANICAL

21913
07/13/2021
M403

FOR BID

GENERAL NOTES

1. ALL AIR HANDLING UNITS SHALL HAVE 3 - WAY VALVES.
2. REFER TO DETAILS 05 / M402 & 06 / M402 FOR ADDITIONAL FITTINGS AND VALVES REQUIRED AT COILS.



1 MECHANICAL PIPING FLOW DIAGRAM
NOT TO SCALE

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

FLOW DIAGRAMS - MECHANICAL

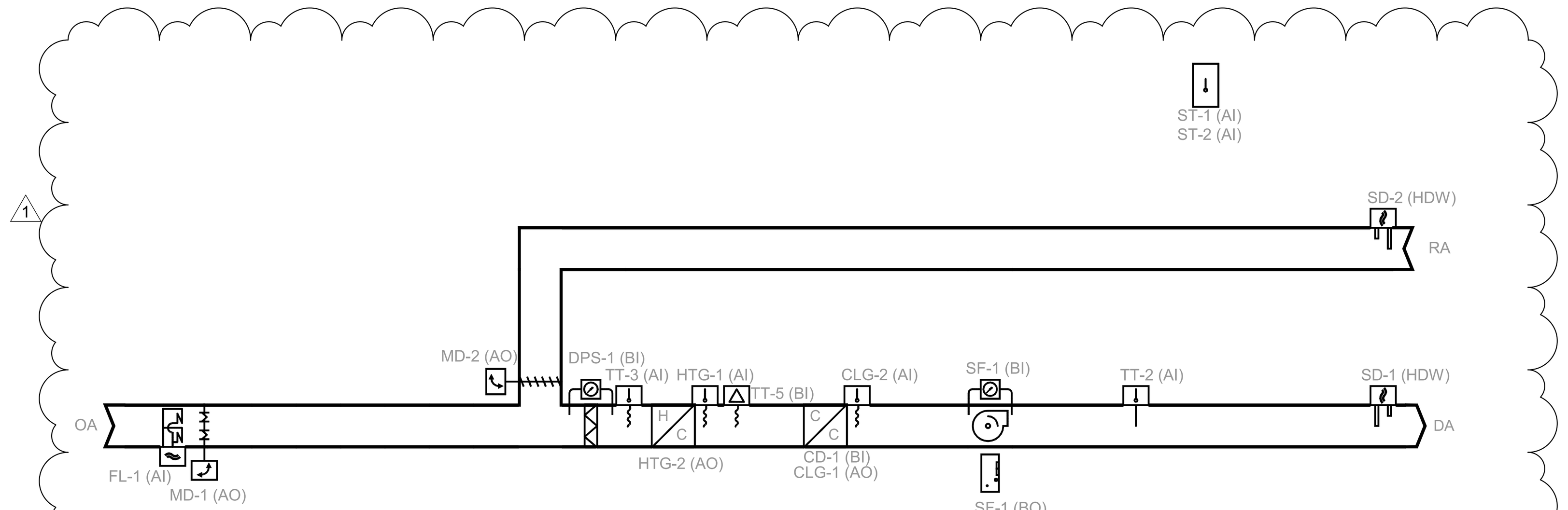
MD ENGINEERING
Texas Registered Engineering Firm No. F-7469
1255 West 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

21913
07/13/2021
M501

FOR BID

SYSTEM :			HARDWARE																																SOFTWARE													
AHU-I-1, AHU-I-2, AHU-I-3, AHU-I-6, AHU-I-7, AHU-I-8, AHU-I-9, & AHU-I-0			OUTPUT										INPUT																						ALARMS					PROGRAMS								
			DIGITAL						ANALOG				DIGITAL											ANALOG																								
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB) (F)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TEMPERATURE (F)	TREND LOGGING
SUPPLY FAN	AO-1	SF-1									X																																X	X				X
FAN FAILURE	SFT-5	SF-2																																					X									X
OUTSIDE AIR TEMP	AO-2	OT-1									X																																					X
OUTSIDE AIR QUALITY	AI-6	AQ-1																															X															X
OUTSIDE AIR %RH	AI-7	HT-2																													X																	X
OUTSIDE AIR FLOW	AI-10	OF-1																									X																					X
RETURN AIR %RH	AI-1	HT-1																													X						X											X
RETURN AIR TEMP	AI-2	TT-1																												X							X											X
SUPPLY AIR TEMP	AI-3	TT-2																												X							X										X		X
SUPPLY AIR SETPOINT	AI-8	TT-4																												X																			X
MIXED AIR TEMP	AI-4	TT-3																												X								X											X
SUPPLY AIR STATIC	AI-5	SP-1																							X												X												X
SUPPLY SMOKE DETECTOR	DI-1	SD-1																					X																	X									X
RETURN SMOKE DETECTOR	DI-2	SD-2																					X																	X									X
OUTSIDE AIR MOTORIZED DAMPER	AO-5	MD-1							X																																		X						X
RETURN AIR MOTORIZED DAMPER	AO-6	MD-2							X																																		X						X
CHW CONTROL VALVE	AO-3	CLG-VLV								X																																							X
HHW CONTROL VALVE	AO-4	HTG-VLV								X																																							X
CLG COIL LEAVING TEMP. LOCAL	AI-9	CLG-1																												X						X	X	X											X
CLG OUTPUT COMMAND	AO-7	CLG-2								X																																							X
PEHEAT LVG. COIL TEMP. LOCAL	AI-11	HTG-1																												X						X	X	X											X
PEHEAT OUTPUT COMMAND	AO-8	HTG-2								X																																							X
SPACE TEMP. LOCAL	AI-12	ST-1																												X						X	X	X											X
SPACE TEMP. SETPOINT LOCAL	AI-13	ST-2																												X																			X
DISCHARGE AIR CLG. SETPOINT	SFT-2	CLG-3																																														X	X
DISCHARGE AIR HTG. SETPOINT	SFT-3	HTG-3																																														X	X
MIXED AIR TEMP. LOW LIMIT SP.	SFT-6	TT-5																																														X	X
FILTER STATUS	DI-3	DPS-1														X																								X									X
BAS COMMUNICATION STATE	SFT-1	BAS-1																																		X													X
MAINTENANCE REQUIRED	SFT-4	BAS-2																																						X									X
CONDENSATE OVFW DETECTION	DI-5	CD-1																					X																	X									X
SMOKE OPERATION MODE	DO-1	SO-1		X																																			X										X

SYSTEM :			HARDWARE																																SOFTWARE													
AHU-I-4 & AHU-I-5			OUTPUT										INPUT																						ALARMS					PROGRAMS								
			DIGITAL						ANALOG				DIGITAL											ANALOG																								
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB) (F)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TEMPERATURE (F)	TREND LOGGING
SUPPLY FAN	AO-1	SF-1									X																																X	X				X
FAN FAILURE	SFT-5	SF-2																																					X									X
OUTSIDE AIR TEMP	AO-2	OT-1									X																																					X
OUTSIDE AIR QUALITY	AI-6	AQ-1																															X															X
OUTSIDE AIR %RH	AI-7	HT-2																													X																	X
OUTSIDE AIR FLOW	AI-10	OF-1																									X																					X
RETURN AIR %RH	AI-1	HT-1																													X						X											X
RETURN AIR TEMP	AI-2	TT-1																												X							X											X
SUPPLY AIR TEMP	AI-3	TT-2																												X							X										X		X
SUPPLY AIR SETPOINT	AI-8	TT-4																												X																			X
MIXED AIR TEMP?	AI-4	TT-3																												X								X											X
SUPPLY AIR STATIC	AI-5	SP-1																							X												X												X
SUPPLY SMOKE DETECTOR	DI-1	SD-1																					X																	X									X
RETURN SMOKE DETECTOR	DI-2	SD-2																					X																	X									X
OUTSIDE AIR MOTORIZED DAMPER	AO-5	MD-1							X																																		X						X
RETURN AIR MOTORIZED DAMPER	AO-6	MD-2							X																																		X						X
CHW CONTROL VALVE	AO-3	CLG-VLV								X																																							X
HHW CONTROL VALVE	AO-4	HTG-VLV								X																																							X
CLG COIL LEAVING TEMP. LOCAL	AI-9	CLG-1																												X						X	X	X											X
CLG OUTPUT COMMAND	AO-7	CLG-2								X																																							X
PEHEAT LVG. COIL TEMP. LOCAL	AI-11	HTG-1																												X						X	X	X											X
PEHEAT OUTPUT COMMAND	AO-8	HTG-2								X																																							X
SPACE TEMP. LOCAL	AI-12	ST-1																												X						X	X	X											X
SPACE TEMP. SETPOINT LOCAL	AI-13	ST-2																												X																			X
DISCHARGE AIR CLG. SETPOINT	SFT-2	CLG-3																																														X	X
DISCHARGE AIR HTG. SETPOINT	SFT-3	HTG-3																																														X	X
MIXED AIR TEMP. LOW LIMIT SP.	SFT-6	TT-5																																														X	X
FILTER STATUS	DI-3	DPS-1														X																								X									X
BAS COMMUNICATION STATE	SFT-1	BAS-1																																		X													X
MAINTENANCE REQUIRED	SFT-4	BAS-2																																						X									X
CONDENSATE OVFW DETECTION	DI-5	CD-1																					X																	X									X



1 FLOW DIAGRAM - AHU
1/8" = 1'-0"

MD ENGINEERING

Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

CONTROL POINTS - MECHANICAL

21913
07/13/2021
M503

FOR BID

SYSTEM :

SSF-01, SSF-02, SSF-03A, SSF-03B, SSF-03C, SSF-04, SSF-05, SSF-06, SSF-07, SEF-02, SEF-03, & SEF-04

		POINT ID
HARDWARE	OUTPUT DIGITAL	SUPPLY/EXHAUST FAN
		FAILURE ALARM
		NON SPRING RETURN DAMPER
		AHU SUPPLY MOTORIZED DAMPER
		SSF SUPPLY MOTORIZED DAMPER
		SSF EXHAUST MOTORIZED DAMPER
		SMOKE OPERATION MODE
	OUTPUT ANALOG	
	INPUT DIGITAL	
	INPUT ANALOG	
SOFTWARE	ALARMS	
	PROGRAMS	

		POINT ID
HARDWARE	OUTPUT DIGITAL	SUPPLY/EXHAUST FAN
		FAILURE ALARM
		NON SPRING RETURN DAMPER
		AHU SUPPLY MOTORIZED DAMPER
		SSF SUPPLY MOTORIZED DAMPER
		SSF EXHAUST MOTORIZED DAMPER
		SMOKE OPERATION MODE
	OUTPUT ANALOG	
	INPUT DIGITAL	
	INPUT ANALOG	
SOFTWARE	ALARMS	
	PROGRAMS	

SYSTEM :

SEF-01, SEF-05, SSF-06 & SEF-07

		POINT ID
HARDWARE	OUTPUT DIGITAL	SUPPLY/EXHAUST FAN
		FAILURE ALARM
		NON SPRING RETURN DAMPER
		AHU SUPPLY MOTORIZED DAMPER
		SSF SUPPLY MOTORIZED DAMPER
		SSF EXHAUST MOTORIZED DAMPER
		SMOKE OPERATION MODE
	OUTPUT ANALOG	
	INPUT DIGITAL	
	INPUT ANALOG	
SOFTWARE	ALARMS	
	PROGRAMS	

SYSTEM :

SFEF-01

		POINT ID
HARDWARE	OUTPUT DIGITAL	EXHAUST FAN
		FAILURE ALARM
		SOUND SENSOR
		SPACE TEMPERATURE SENSOR
		CO2 NO1 SET POINT
		SPACE TEMPERATURE SETPOINT
		OUTSIDE AIR DAMPER
		SPACE TEMP TIME SET POINT
		GARAGE DOOR STATUS
		GARAGE DOOR TIME SETPOINT
	OUTPUT ANALOG	
	INPUT DIGITAL	
	INPUT ANALOG	
SOFTWARE	ALARMS	
	PROGRAMS	

SYSTEM :

EF-01, EF-02, EF-03, EF-04, EF-05, EF-06, EF-07, EF-08, EF-09, EF-10, EF-13, EF-14, EF-15, EF-16, EF-17, & EF-18

		POINT ID
HARDWARE	OUTPUT DIGITAL	EXHAUST FAN
		FAN STATUS
		FAILURE ALARM
	OUTPUT ANALOG	
	INPUT DIGITAL	
	INPUT ANALOG	
SOFTWARE	ALARMS	
	PROGRAMS	

		TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
		AO-1																																												
		AO-2																																												
		AO-3																																												
		AO-4																																												
		AO-5																																												
		DO-1																																												
		SF-1																																												
		FA-1																																												
		MD-1																																												
		MD-2																																												
		MD-3																																												
		MD-4																																												
		SO-1																																												

		TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
		AO-1																																												
		AO-2																																												
		AO-3																																												
		AO-4																																												
		AO-5																																												
		DO-1																																												
		SO-1																																												
		E

FOR BID

BRINKLEY SARGENT WIGINTON ARCHITECTS

4300 COMMUNITY AVE, MCKENNY, TX 75071

COLLIN COUNTY ADF - PHASE 1 ADDTION

HISTORY		
#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

CONTROL POINTS - MECHANICAL

21913
07.13.2021
M505

MD ENGINEERING
TBPE Firm Registration No. F-14,709
1255 West 15th Street, Suite 300 · Plano, TX 75075
PH: 469.467.0300 FAX: 469.467.0330
Project No. 1921254
Email: mdengineering@md-eng.com

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2745
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lottotech (972) 633-5850

| SYSTEM : EF-11, EF-12 | | |

SYSTEM :			HARDWARE																																SOFTWARE												
UH-01, UH-02, UH-03, UH-04, UH-05, & UH-06			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
SUPPLY FAN	AO-1	SF-1						X																																			X	X			X
FAILURE ALARM	DI-1	FA-1																			X																X								X
LOW TEMPERATURE ALARM	DI-2	FA-2																			X																X								X
SPACE TEMPERATURE	AI-1	TT-1																										X																	X
HHW CONTROL VALVE	AO-2	HTG-VLV								X																																			X
SPACE TEMPERATURE SETPOINT	AI-2	TT-2																										X																	X
BOILER HHW SUPPLY WATER TEMP	AI-3	TT-3																													X					X									X

SYSTEM :			HARDWARE																																SOFTWARE												
UH-07, UH-08, UH-09, UH-10 UH-11, UH-12, UH-13, UH-14, UH-15, UH-16, & UH-17			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
SUPPLY FAN	AO-1	SF-1						X																																			X	X			X
FAILURE ALARM	DI-1	FA-1																			X																X								X
LOW TEMPERATURE ALARM	DI-2	FA-2																			X																X								X
SPACE TEMPERATURE	AI-1	TT-1																										X																	X
SPACE TEMP SETPOINT	AI-2	TT-2																										X																	X

SYSTEM :			HARDWARE																																SOFTWARE												
L-1, L-2, L-3, & L-25			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
LOUVER STATUS	DI-1	LS-1											X																																X
FAILURE ALARM	DI-2	FA-1																			X																X								X

SYSTEM :			HARDWARE																																SOFTWARE												
VH-B			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
MOTORIZED DAMPER STATUS	DI-1	MD-1											X																																X
FAILURE ALARM	DI-2	FA-1																			X																X								X

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201264

CONTROL POINTS - MECHANICAL

21913

07/13/2021

M506

FOR BID

SYSTEM :			HARDWARE																																SOFTWARE												
B-03 & B-04			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	FAULT RESET	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
SUPPLY WATER TEMP	AI-1	TT-1																											X								X										X
RETURN WATER TEMP	AI-2	TT-2																											X								X										X
OUTSIDE AIR TEMP	AI-3	TT-3																											X																		X
BOILER ALARM	DI-1	B-1																					X													X												X
BOILER ENABLE COMMAND	DO-1	B-2						X																																							X
BOILER LOW WATER CUT-OFF	DI-2	B-3																					X													X												X
CARBON DIOXIDE SENSOR	AI-4	SD-1																													X					X											X
SECOND STAGE TEMP SETPOINT	AI-5	TT-4																											X																		X
SECOND STAGE TIME SETPOINT	AI-6	TS-1																														X															X
SECOND STAGE CONTROL VALVE	AO-1	HTG-VLV-1								X																																					X
THIRD STAGE TEMP SETPOINT	AI-7	TT-5																											X																		X
THIRD STAGE TIME SETPOINT	AI-8	TS-2																														X															X
THIRD STAGE CONTROL VALVE	AO-2	HTG-VLV-2								X																																					X

SYSTEM :			HARDWARE																																SOFTWARE												
CHWP-1, CHWP-2, HHWP-1, & HHWP-2			OUTPUT										INPUT																						ALARMS					PROGRAMS							
			DIGITAL						ANALOG				DIGITAL											ANALOG																							
POINT DESCRIPTION	POINT ID	TAG/MARK	OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	ON/OFF	DAMPER CONTROL	VALVE CONTROL	VFD CONTROL	FIXED PRESET-VS DRIVE	END SWITCH	RELAY CONTACTS	HAND SWITCH	CURRENT SWITCH	PRESSURE	DIFFERENTIAL PRESS	FLOW	AUX CONTACTS	SAIL SWITCH	ALARM/SAFETY	STATUS	PRESSURE	DIFFERENTIAL PRESS	FLOW	KW	HERTZ PREFERENCE	TEMPERATURE (DB)	RELATIVE HUMIDITY	CARBON DIOXIDE	MEASURE	SPEED POSITION	PULSE	STATUS FAILURE	HIGH LIMIT	LOW LIMIT	SMOKE	MAINTENANCE	AUTO RESTART	ENTHALPY ECONOMIZER	MINIMUM FLOW RATE (CFM)	RUN TIME	SCHEDULED START/STOP	LEAD/LAG	SUPPLY AIR RESET	TREND LOGGING
PUMP MOTOR	AO-1	PM-1									X																																				X
LEAD/LAG STATUS	DI-1	LL-1																					X																						X		X
LEAD/LAG SCHEDULE	AO-2	LL-2									X																																	X			X
SYSTEM PRESSURE SETPOINT	AI-1	SP-1																						X																							X
PRESSURE SENSOR	AI-2	SP-2																						X																							X
LEAD/LAG OPERATION TIMER	AI-4	LL-3																														X													X		X
SYNCHRONIZED PUMP SPEED	AI-3	PS-1																															X														X

BRINKLEY SARGENT WIGINTON ARCHITECTS

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Security: Lattatech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDTION

4300 COMMUNITT AVE, MCKENNY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08.18.2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
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Email: mdengco@md-eng.com Project No.: 201254

CONTROL POINTS - MECHANICAL

21913
07/13/2021
M507

FOR BID

BOILER SCHEDULE

MARK	ELECTRIC DATA SERVICE	ELECTRIC DATA Amps	GPH RECOVERY AT AT 100°F RISE	INPUT M.B.H.	STORAGE CAPACITY (GAL)	COMBUSTION AIR INTAKE	EXHAUST FLUE	WEIGHT LB.	MANUFACTURER AND MODEL	REMARKS
B-1	120/1	5.0	873	750	225	6"	6"	1,700	PVI 75 L 225A-PVX	1, 2
B-2	120/1	5.0	873	750	225	6"	6"	1,700	PVI 75 L 225A-PVX	1, 2

NOTES:
1. PROVIDE AND INSTALL A CO SENSOR INTERLOCKED TO THE BURNER CONTROLLER FOR UNITS MONITORED BY THE FIRE ALARM SYSTEM
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

PUMP SCHEDULE

DESIG.	TYPE	SERVES	GPM	HEAD FT	HP	V/PH	RPM	MFG	MODEL NUMBER	NOTES
RP-1	RECIRC PUMP	DOMESTIC HOT WATER JAIL	10	40	1/2	115/1	-	GRUNDFOS	UPS 26-150SF	1
SP-1	SUMP PUMP	ELEVATOR PIT	50	40	1/2	115/1	3450	PENTAIR	ME50S-11	2
BP-1	BOOSTER PUMP	DOMESTIC WATER SYSTEM	220	50	5	208/3	3500	TIGERFLOW	CD20-2	3

NOTES;
1. PROVIDE WITH AQUASTAT SET AT 120F TO ENERGIZE/DENERGIZE PUMP
2. PROVIDE ALARM REQUIREMENTS AS REQUIRED BY TDLR. LOCATE AS DIRECTED BY OWNER
3. FACTORY PRE-ASSEMBLED BOOSTER PUMPS. FOLLOW MANUFACTURERES RECOMMENDATIONS

WATER SOFTENER

MARK	ELECTRICAL DATA SERVICE	ELECTRICAL DATA AMPS	MAX GPM	BACKWASH GPM	POUNDS OF GRAVEL	MAX SALT PER REFENERATION	SPACE REQUIRED (WXDXH)	SOFTENING CAPACITY	WEIGHT IN lb	MANUFACTURER AND MODEL	REMARKS
WS-1	120/1	2.5	120	12	100	105	24"X80"X89	210 K	1200	WATTS PWS20131G21	1, 2, 3

NOTES:
1. PRIOR TO SUMBITTING WATER SOFTNER SUBMITTAL, CONTRACTOR SHALL SEND WATER SAMPLE TO APPROVED LAB FOR WATER ANALYSIS TO CONFIRM WATER SOFTENER...
2. ALL ITEMS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
3. THE WATER SOFTNER SCHEDULE IS A DUPLEX SYSTEM

OIL INTERCEPTOR

MARK	ELEVATOR CABS	TOTAL CAPACITY	FLOW RATE (GPM)	DIAMETER	HEIGHT	DISCH SIZE	INLET FL1	OUTLET FL2	MANUFACTURER	MODEL	REMARKS
OI-1	1	100 GAL	50	30"	44"	2"	35"	32"	PARK	ELVS-100	1, 2

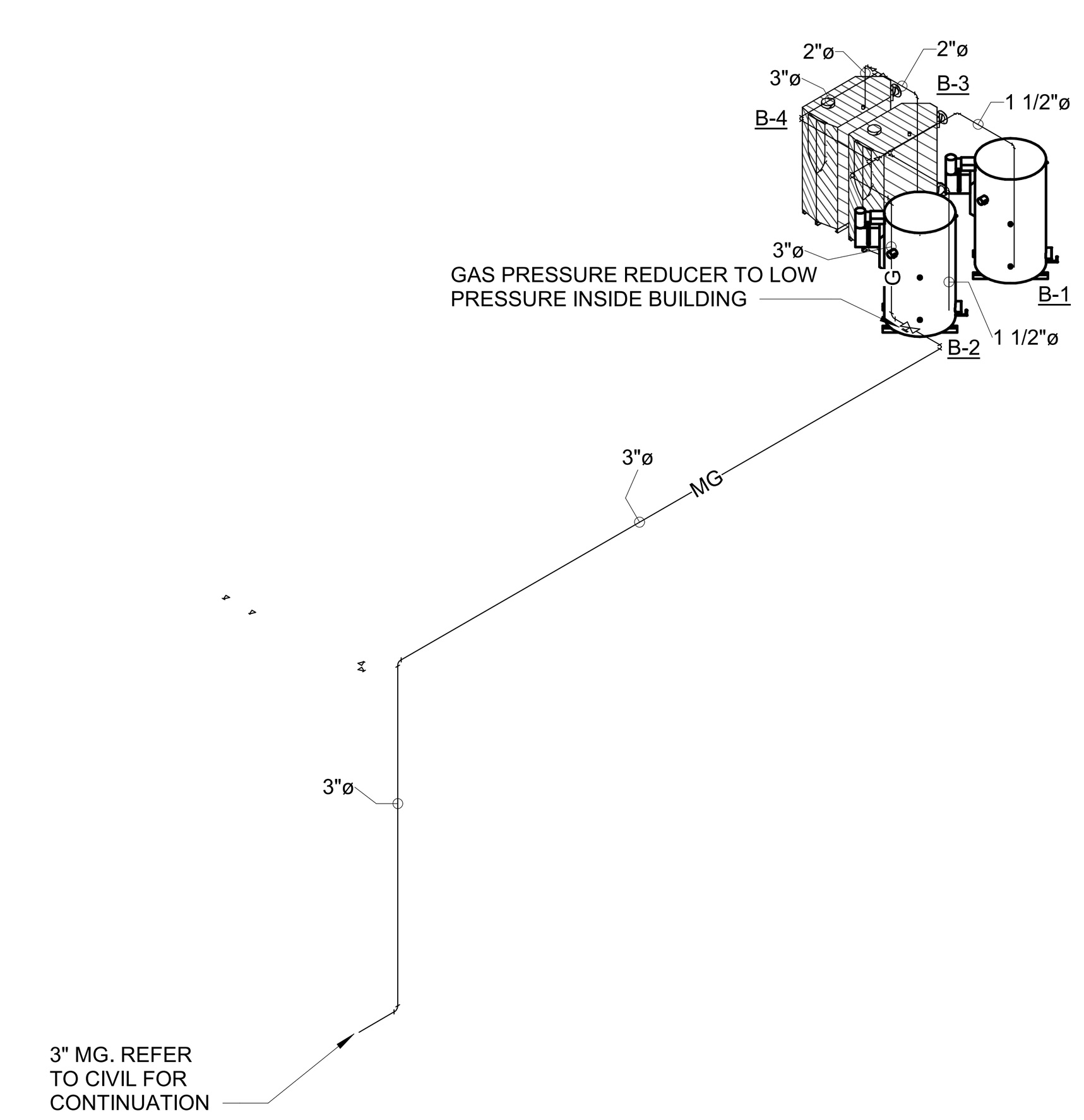
NOTES:
1. INTERCEPTOR SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
2. PROVIDE PUMP CONTROL PANEL WITH HIGH LEVEL ALARM

WATER AND SEWER DEMAND SCHEDULE

FIXTURE	QUANTITY	SANITARY SEWER D.F.U. VALUE	SANITARY SEWER D.F.U. SUBTOTAL	DOMESTIC WATER W.S.F.U. VALUE	DOMESTIC WATER W.S.F.U. SUBTOTAL
WATER CLOSET -FLUSH VALVE	13	6	78	10.0	130
COMBINATION FIXTURE	86	6	516	10.0	860
LAVATORY	16	1	16	2.0	32
SHOWER HEAD (PRIVATE < 5.7 GPM)	28	2	56	1.4	39.2
SINK	9	2	18	1.4	12.6
SERVICE SINK	11	2	22	3.0	33
SALON SINK	3	2	6	1.4	4.2
3" FLOOR DRAINS	123	5	615	-	-
3" FLOOR SINKS	8	5	40	-	-
4" FLOOR SINKS	1	6	6	-	-
HOSE BIBB	21	-	-	2.75	57.75
WASHING MACHINE (8LB - PRIVATE)	1	2	2	1.4	1.4
WASHING MACHINE (15LB - PUBLIC)	1	3	3	4.0	4
DRINKING FOUNTAIN	6	0.5	3	0.25	1.5
COFFEE BREWER	2	-	-	0.5	1
REFRIGERATOR	2	-	-	0.5	1
ICE MACHINE	1	-	-	4.0	4
CALCULATIONS BASED UPON 2018 INTERNATIONAL PLUMBING CODE		**GRAND TOTAL SEWER D.F.U.**	**1381**	**GRAND TOTAL DOM WATER WSFU**	**1181.65**
		BUILDING SEWER SIZE		GPM = 230.5	
		AT 1/8"/FT SLOPE = 8"		BLDG. SUPPLY SIZE =	4"

NATURAL GAS DEMAND SCHEDULE

EQUIPMENT	CFH	BRANCH PIPE SIZE
B-1	750	1-1/2"
B-2	750	1-1/2"
B-3	1500	2"
B-4	1500	2"
CALCULATIONS BASED UPON 2018 INTERNATIONAL FUEL GAS CODE	4,500 LONGEST RUN =50' GAS MAIN DELIVERY PRESSURE = 2.0 PSI SYSTEM PRESSURE = 0.5 PSI	



1 GAS RISER

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BRINKLEY SARGENT WIGINTONARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

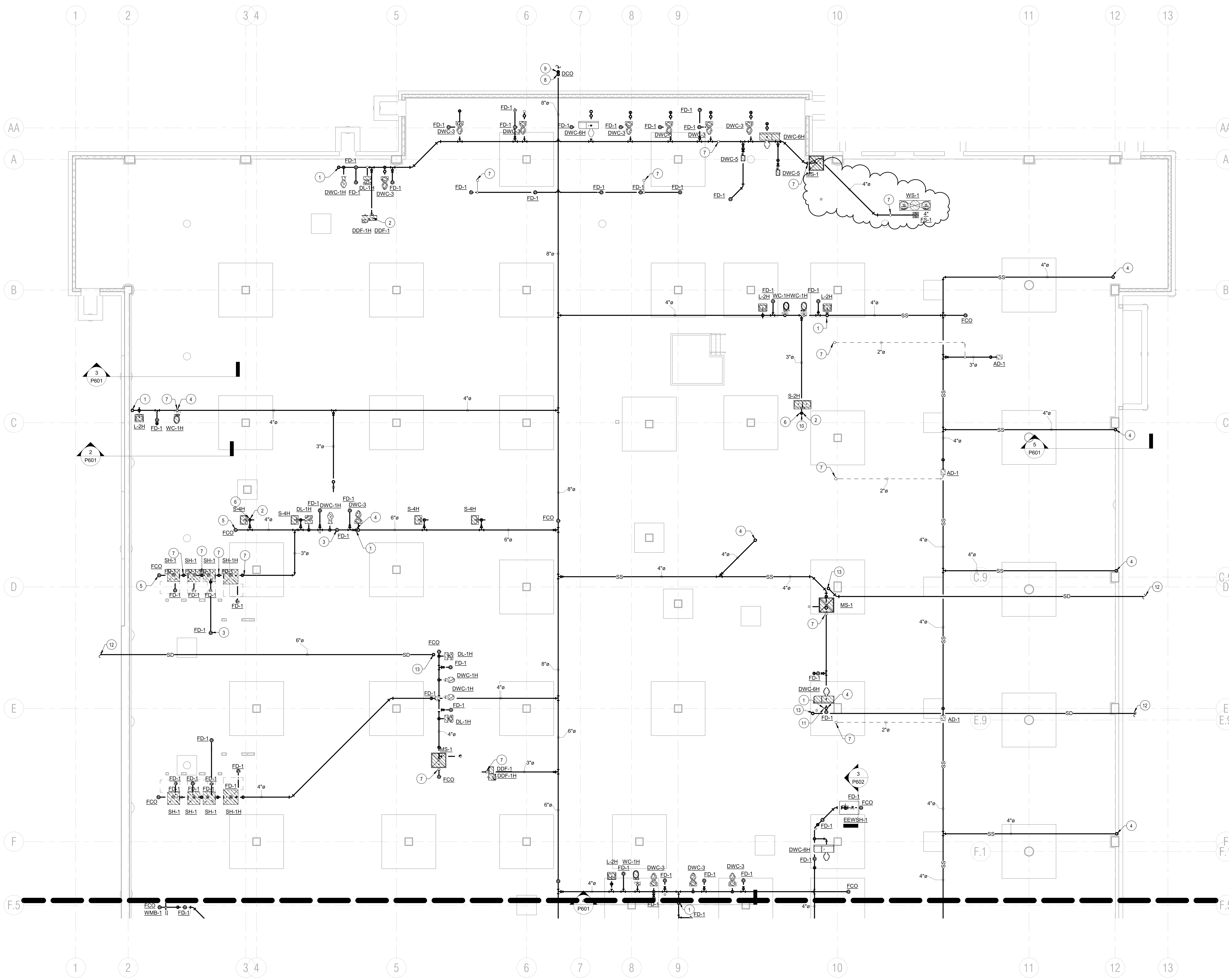
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

SCHEDULES - PLUMBING

21913
07/13/2021
P003

FOR BID



1 LOWER LEVEL EAST FLOOR PLAN - UNDERFLOOR
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO MP0.0 FOR GENERAL PLUBMING NOTES, ABBREVIATIONS, AND SYMBOLS. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.
2. COORDINATE ALL PIPING AND FIXTURES WITH ALL TRADES BEFORE WORK BEGIN.
3. ELECTRONIC TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE ON DRAWINGS. MAKE PROVISIONS FOR LINES DURING THE UNDER FLOOR CONSTRUCTION.
4. ALL SANITARY PIPING 3" AND GREATER SHALL BE SLOPED AT 1/8" PER FOOT WITH SANITARY PIPE 2-1/2" AND SMALLER SLOPED AT 1/4" PER FOOT.
5. ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.
6. PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS WHERE CUTTING IS REQUIRED.
7. VERIFY ALL INVERTS AND FIELD COORDINATE WITH CIVIL BEFORE ANY WORK IS TO BEGIN.
8. INVERTS 5' OUTSIDE BUILDING ARE BASED ON A FINISHED FLOOR ELEVATION OF 100.0' AND STARTING THE SANITARY SEWER 18" BELOW SLAB. BOTTOM OF PIPE OR INVERT DIMENSIONS SHALL BE SHOWN ON THE PLUMBING SHOP DRAWINGS.

NOTES BY SYMBOL "○":

1. SS UP TO ABOVE CEILING TO SERVE NEXT LEVEL.
2. 2" S.S. UP.
3. 3" S.S. UP.
4. 4" S.S. UP.
5. UP TO FCO.
6. 1 1/2" VENT UP.
7. 2" VENT UP.
8. 92.25' INVERT ELEVATION @ DATUM OF 100'.
9. INSTALL DOUBLE CLEAN OUT. SEE CIVIL FOR CONTINUATION OF SEWER LINE.
10. INSTALL WCO. CONCEAL WHEN POSSIBLE UNDER CABINETS.
11. INSTALL PIN CLEAN OUT PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL AT ALL CHASE PIPING FOR DETENTION FIXTURES).
12. SEE CIVIL FOR CONTINUATION.
13. 6" STORM DRAIN UP.

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Civil: Pacheco Koch (214) 451-2765
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BRINKLEY SARGENT WIGINTONARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
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1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
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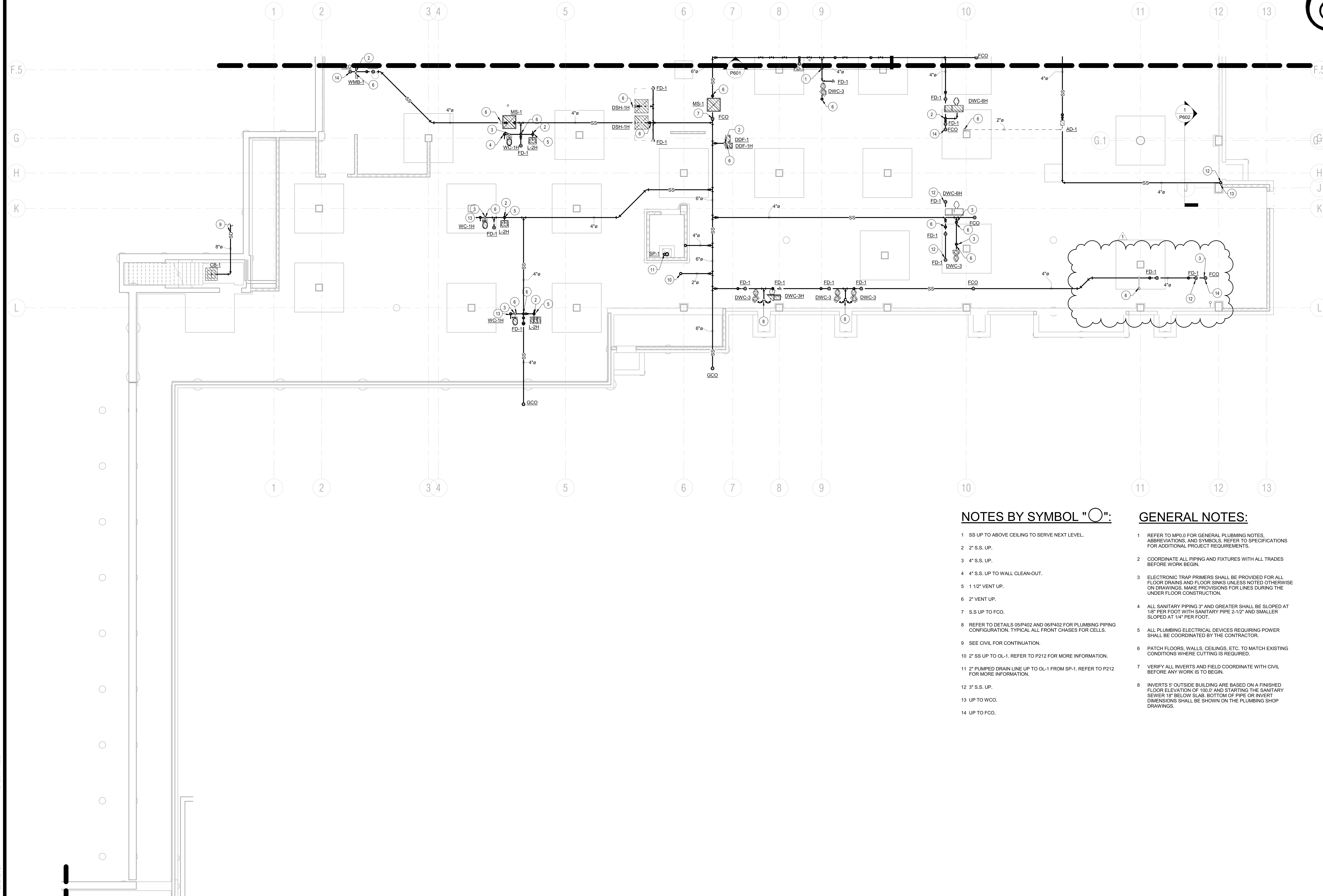
LOWER LEVEL EAST FLOOR PLAN - UNDERFLOOR

21913
07/13/2021
P201

FOR BID

Brinkley Sargent Wiginton Architects, Inc.



1 LOWER LEVEL WEST FLOOR PLAN - UNDERFLOOR
1/8" = 1'-0"

NOTES BY SYMBOL "○":

1 SS UP TO ABOVE CEILING TO SERVE NEXT LEVEL.

2 2" S.S. UP.

3 4" S.S. UP.

4 4" S.S. UP TO WALL CLEAN-OUT.

5 1 1/2" VENT UP.

6 2" VENT UP.

7 S.S UP TO FCO.

8 REFER TO DETAILS 05/P402 AND 06/P402 FOR PLUMBING PIPING CONFIGURATION. TYPICAL ALL FRONT CHASES FOR CELLS.

9 SEE CIVIL FOR CONTINUATION.

10 2" SS UP TO OL-1. REFER TO P212 FOR MORE INFORMATION.

11 2" PUMPED DRAIN LINE UP TO OL-1 FROM SP-1. REFER TO P212 FOR MORE INFORMATION.

12 3" S.S. UP.

13 UP TO WCO.

14 UP TO FCO.

GENERAL NOTES:

1 REFER TO MP0.0 FOR GENERAL PLUBMING NOTES, ABBREVIATIONS, AND SYMBOLS. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS.

2 COORDINATE ALL PIPING AND FIXTURES WITH ALL TRADES BEFORE WORK BEGIN.

3 ELECTRONIC TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE ON DRAWINGS. MAKE PROVISIONS FOR LINES DURING THE UNDER FLOOR CONSTRUCTION.

4 ALL SANITARY PIPING 3" AND GREATER SHALL BE SLOPED AT 1/8" PER FOOT WITH SANITARY PIPE 2-1/2" AND SMALLER SLOPED AT 1/4" PER FOOT.

5 ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.

6 PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS WHERE CUTTING IS REQUIRED.

7 VERIFY ALL INVERTS AND FIELD COORDINATE WITH CIVIL BEFORE ANY WORK IS TO BEGIN.

8 INVERTS 5' OUTSIDE BUILDING ARE BASED ON A FINISHED FLOOR ELEVATION OF 100.0' AND STARTING THE SANITARY SEWER 18" BELOW SLAB. BOTTOM OF PIPE OR INVERT DIMENSIONS SHALL BE SHOWN ON THE PLUMBING SHOP DRAWINGS.

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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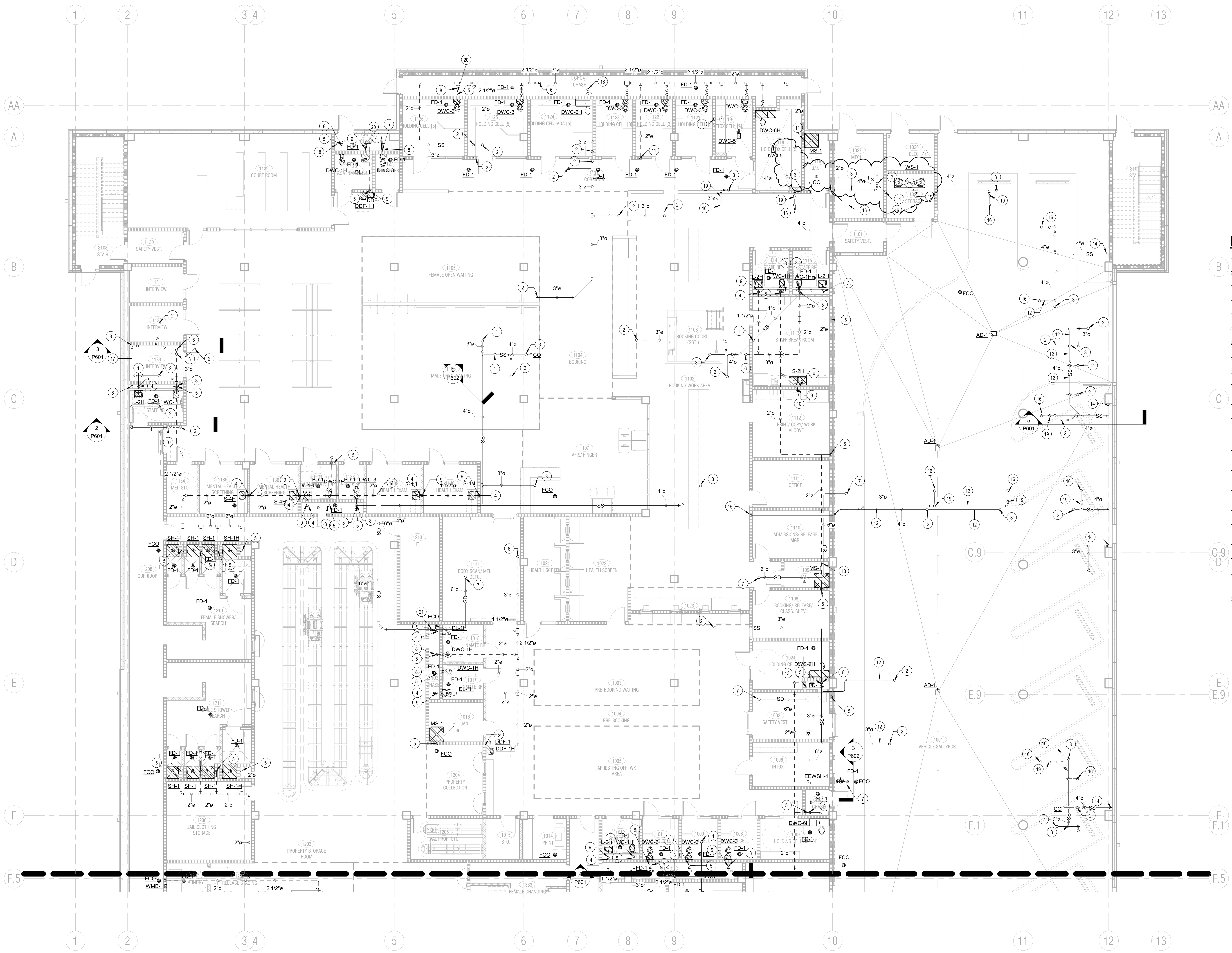
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST FLOOR PLAN - UNDERFLOOR

21913
07/13/2021
P202

FOR BID



1 LOWER LEVEL EAST FLOOR PLAN - SANITARY/VENT
1/8" = 1'-0"

GENERAL NOTES:

1 REFER TO MP0.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS, AND SYMBOLS.

2 COORDINATE ALL PIPING AND FIXTURES WITH ALL OTHER TRADES BEFORE WORK IS TO BEGIN.

3 NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT.

4 ALL SANITARY PIPING TO BE AT A 1/8" SLOPE, UNLESS NOTED OTHERWISE.

5 ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.

6 THERE SHALL BE NO PIPING ROUTED OVER ELECTRICAL/IT ROOMS.

7 TRAP PRIMERS/TRAP GUARDS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS EXCEPT FOR SHOWER DRAINS AND FLOOR SINK AT ICE MAKER.

8 VALVE LOCATIONS: UNLESS OTHERWISE INDICATED, PROVIDE A VALVE ON EACH BRANCH SERVING A RESTROOM.
1.PROVIDE A VALVE ON INLET AND OUTLET OF EACH PIECE OF EQUIPMENT.
2.PROVIDE VALVES TO ISOLATE INDIVIDUAL OR GROUP OF FIXTURES AND EQUIPMENT ON BRANCH RUNOUTS FROM PIPING MAINS. THIS IS IN ADDITION TO VALVES AT EACH FIXTURE AND EQUIPMENT.
3.PROVIDE INTERIOR SHUT-OFF AND DRAIN VALVES ON EACH BRANCH TO WALL HYDRANT AND HOSE BIBB.
4.PROVIDE VALVES AT THE BASE OF DOMESTIC WATER PIPE RISERS.
5.PROVIDE VALVES AS INDICATED AND WHERE REQUIRED TO ADEQUATELY SERVICE PARTS OF SYSTEMS AND EQUIPMENT.
6.PROVIDE VALVES ON HOT AND COLD WATER LINES IN CELL CHASES 6'-0" ABOVE FINISHED FLOOR AT EACH LEVEL.

9 LOCATE ACCESSIBLE FIXTURES IN ACCORDANCE WITH TAS STANDARDS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

10 SHOWER HEADS SHALL BE CENTERED IN WALL AND ADJUST SPRAY CONE TO PREVENT OVERSPARY INTO DRYING AREA

NOTES BY SYMBOL "◯":

1 2" S.S. UP.

2 3" S.S. UP.

3 4" S.S. UP.

4 1 1/2" VENT UP.

5 2" VENT UP.

6 3" VENT UP.

7 6" SD UP TO PD-1.

8 4" S.S. DOWN.

9 2" S.S. DOWN

10 INSTALL WCO. CONCEAL WHEN POSSIBLE UNDER CABINETS.

11 2" VENT DOWN.

12 ALL DUCTWORK, PIPING, WIRING, AND CONDUIT SHALL BE ROUTED TIGHT AGAINST WALL. ROUTES CROSSING VEHICLE SALLYPORT (1001) SHALL BE TIGHT TO STRUCTURE AND 15'-0" ABOVE FINISHED FLOOR.

13 6" SD DOWN ON WALL TO BELOW SLAB. REFER TO P201 FOR CONTINUATION.

14 4" SS DOWN ON WALL TO BELOW SLAB. REFER TO P201 FOR CONTINUATION.

15 4" SS DOWN IN WALL TO BELOW SLAB. REFER TO P201 FOR CONTINUATION.

16 3" SS UP TO FD-1 ON LEVEL 1.

17 COORDINATE PIPE ROUTING WITH ALL OTHER TRADES IN THIS AREA.

18 3" S.S. DOWN.

19 3" SS UP TO FD-2 ON TIER LEVEL.

20 INSTALL PIN CLEAN OUT PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL AT ALL CHASE PIPING FOR DETENTION FIXTURES).

21 6" STORM DRAIN DOWN IN CHASE.

BRINKLEY SARGENT WIGINTONARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

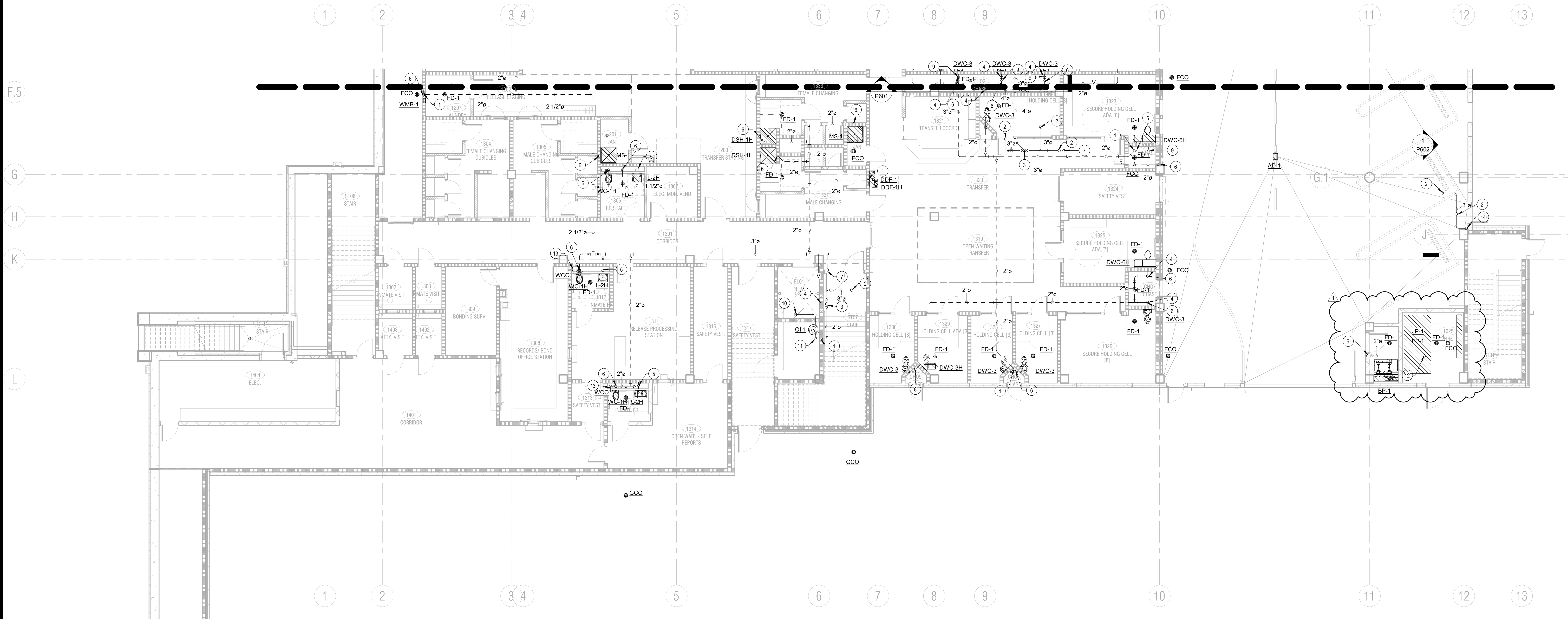
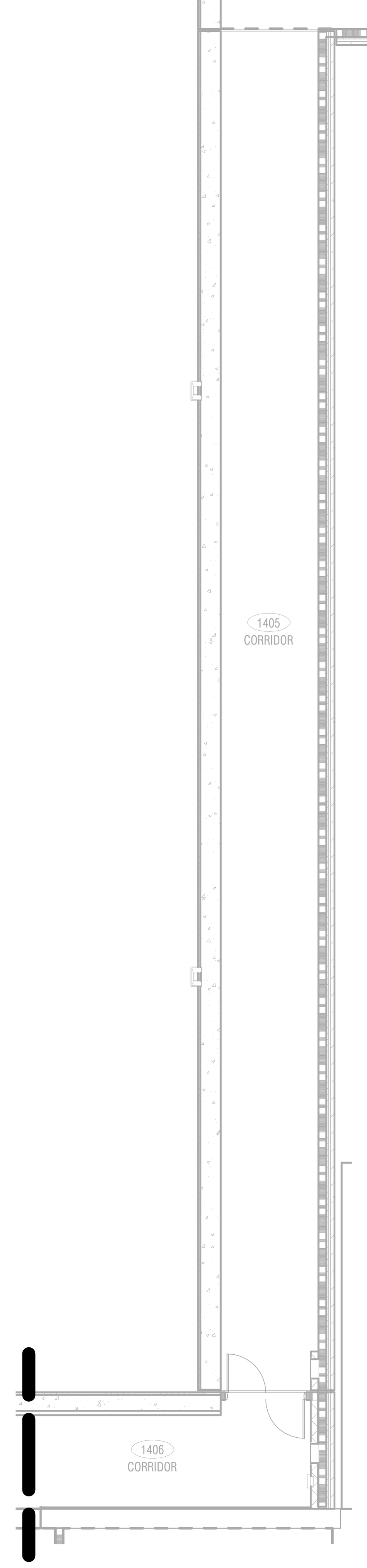
TRUE NORTH

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 West 15th Street, Suite 300 - Plano, TX 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

LOWER LEVEL EAST FLOOR PLAN - SANITARY/VENT

21913
07/13/2021
P211

FOR BID

1 LOWER LEVEL WEST FLOOR PLAN - SANITARY/VENT
1/8" = 1'-0"

NOTES BY SYMBOL "○":

1 2" S.S. UP.

2 3" S.S. UP.

3 4" S.S. UP.

4 4" S.S. DOWN.

5 1 1/2" VENT UP.

6 2" VENT UP.

7 3" VENT UP.

8 REFER TO DETAILS 05/P402 AND 06/P402 FOR PLUMBING PIPING CONFIGURATION. TYPICAL ALL FRONT CHASES FOR CELLS.

9 INSTALL PIN CLEAN OUT PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL AT ALL CHASE PIPING FOR DETENTION FIXTURES).

10 2" DRAIN LINE TO SP-1.

11 2" DRAIN LINE FROM OL-1 TO BELOW SLAB TO CONNECT TO MAIN SEWER LINE. REFER TO P202 FOR MORE INFORMATION.

12 2" VENT THRU ROOF.

13 UP TO WCO.

14 3" S.S. DOWN.

2 TYPICAL PLUMBING CHASE PIPING
NOT TO SCALE

GENERAL NOTES:

1 REFER TO MP0.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS, AND SYMBOLS.

2 COORDINATE ALL PIPING AND FIXTURES WITH ALL OTHER TRADES BEFORE WORK IS TO BEGIN.

3 NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT.

4 ALL SANITARY PIPING TO BE AT A 1/8" SLOPE, UNLESS NOTED OTHERWISE.

5 ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.

6 THERE SHALL BE NO PIPING ROUTED OVER ELECTRICAL/IT ROOMS.

7 TRAP PRIMERS/TRAP GUARDS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS EXCEPT FOR SHOWER DRAINS AND FLOOR SINK AT ICE MAKER.

8 VALVE LOCATIONS: UNLESS OTHERWISE INDICATED, PROVIDE A VALVE ON EACH BRANCH SERVING A RESTROOM.
1.PROVIDE A VALVE ON INLET AND OUTLET OF EACH PIECE OF EQUIPMENT.
2.PROVIDE VALVES TO ISOLATE INDIVIDUAL OR GROUP OF FIXTURES AND EQUIPMENT ON BRANCH RUNOUTS FROM PIPING MAINS. THIS IS IN ADDITION TO VALVES AT EACH FIXTURE AND EQUIPMENT.
3.PROVIDE INTERIOR SHUT-OFF AND DRAIN VALVES ON EACH BRANCH TO WALL HYDRANT AND HOSE BIBB.
4.PROVIDE VALVES AT THE BASE OF DOMESTIC WATER PIPE RISERS.
5.PROVIDE VALVES AS INDICATED AND WHERE REQUIRED TO ADEQUATELY SERVICE PARTS OF SYSTEMS AND EQUIPMENT.
6.PROVIDE VALVES ON HOT AND COLD WATER LINES IN CELL CHASES 6'-0" ABOVE FINISHED FLOOR AT EACH LEVEL.

9 LOCATE ACCESSIBLE FIXTURES IN ACCORDANCE WITH TAS STANDARDS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

10 SHOWER HEADS SHALL BE CENTERED IN WALL AND ADJUST SPRAY CONE TO PREVENT OVERSPARY INTO DRYING AREA

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

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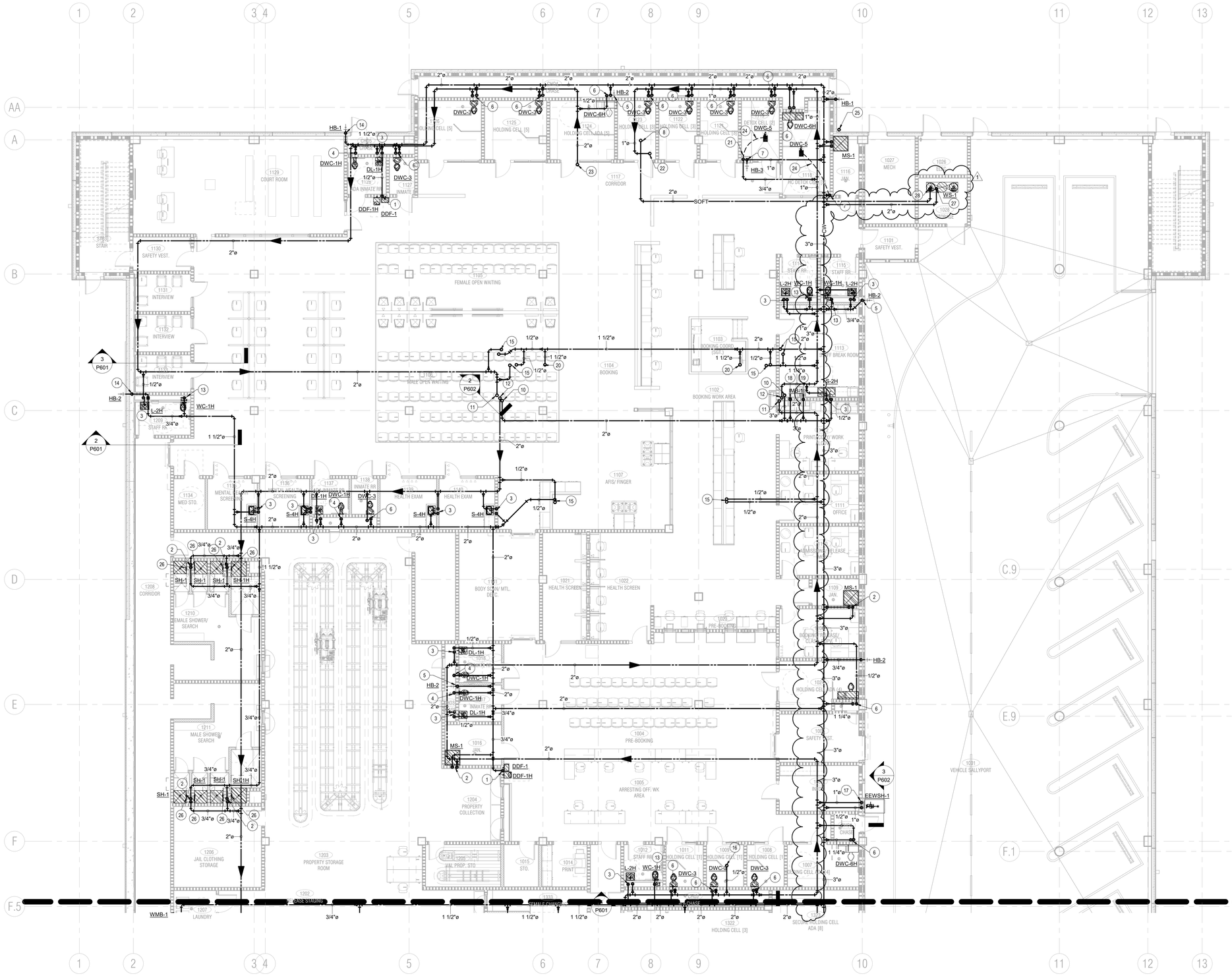
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST FLOOR PLAN - SANITARY/VENT

21913
07/13/2021
P212

FOR BID



1 LOWER LEVEL EAST FLOOR PLAN - PRESURE PIPE
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

GENERAL NOTES:

1 REFER TO MP0.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS, AND SYMBOLS.

2 COORDINATE ALL PIPING AND FIXTURES WITH ALL OTHER TRADES BEFORE WORK IS TO BEGIN.

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5.PROVIDE VALVES AS INDICATED AND WHERE REQUIRED TO ADEQUATELY SERVICE PARTS OF SYSTEMS AND EQUIPMENT.
6.PROVIDE VALVES ON HOT AND COLD WATER LINES IN CELL CHASES 6'-0" ABOVE FINISHED FLOOR AT EACH LEVEL.

9 LOCATE ACCESSIBLE FIXTURES IN ACCORDANCE WITH TAS STANDARDS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

10 SHOWER HEADS SHALL BE CENTERED IN WALL AND ADJUST SPRAY CONE TO PREVENT OVERSPARY INTO DRYING AREA

NOTES BY SYMBOL "◯":

1 1/2" CW DOWN IN WALL TO FIXTURE.

2 3/4" CW/HW DOWN IN WALL TO FIXTURE.

3 1/2" CW/HW DOWN IN WALL TO FIXTURE.

4 1-1/4" CW DOWN IN WALL TO FIXTURE.

5 3/4" CW DOWN IN WALL TO FIXTURE.

6 1-1/4"CW AND 1/2" HW DOWN TO FIXTURES.

7 1" CW FLUSH VALVE CONTROL BOX FOR DWC-5. COORDINATE EXACT LOCATION WITH ARCHITECTS AND OWNER.

8 2" SOFT WATER UP TO B-1 AND B-2.

9 4" NATURAL GAS UP TO FIRST LEVEL TO SERVE B-1/B-2/B-3 AND B-4.

10 CW UP TO SHUT OFF VALVE ON LEVEL 1. REFER TO SECTION ON 2/P602.

11 HW UP TO SHUT OFF VALVE ON LEVEL 1. REFER TO SECTION ON 2/P602.

12 HW(R) DOWN FROM ON LEVEL 1. REFER TO SECTION ON 2/P602.

13 1-1/2" CW DOWN IN WALL TO FIXTURE.

14 3/4" CW DOWN IN WALL TO FIXTURE.

15 1/2" CW/HW UP TO FIXTURE ON LEVEL ABOVE.

16 1/2" HW UP TO FIXTURE ON LEVEL ABOVE.

17 1" H/CW DOWN TO FIXTURE.

18 3/8" LINE TO REFRIGERATOR. PROVIDE 1/4 TURN VALVE IN ACCESSIBLE LOCATION FOR WATER SHUT-OFF. PROVIDE RPZ EQUAL TO WATTS LF7C (AS REQUIRED BY LOCAL AHJ) AND WATER HAMMER ARRESTOR.

19 3/8" LINE TO COFFEE MAKER. PROVIDE 1/4 TURN VALVE IN ACCESSIBLE LOCATION FOR WATER SHUT-OFF. PROVIDE RPZ EQUAL TO WATTS LF7C (AS REQUIRED BY LOCAL AHJ) AND WATER HAMMER ARRESTOR.

20 1-1/2" CW UP TO FIXTURES ON LEVEL ABOVE.

21 3/4" C/HW DOWN IN WALL TO FIXTURE TO HB-3.

22 1" HWR UP TO RP-1 ON LEVEL 1

23 2" HW UP TO TMV-1 ON LEVEL 1 .

24 ROUTE CW UNDER SLAB TO DWC-5.

25 MEDIUM PRESSURE GAS LINE (4500 CFH). REFER TO CIVIL FOR CONTINUATION.

26 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SHOWER VALVE AND HEAD LOCATION.

27 2" CW TO WATER SOFTNER WS-1. INSTALL WATER SOFTNER PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATION UPON FIELD SURVEY.

28 2" SOFT CW UP FROM WATER SOFTNER TO BOILERS B-1 AND B-2 ON LEVEL 1.

BRINKLEY SARGENT WIGINTON ARCHITECTS

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
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1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
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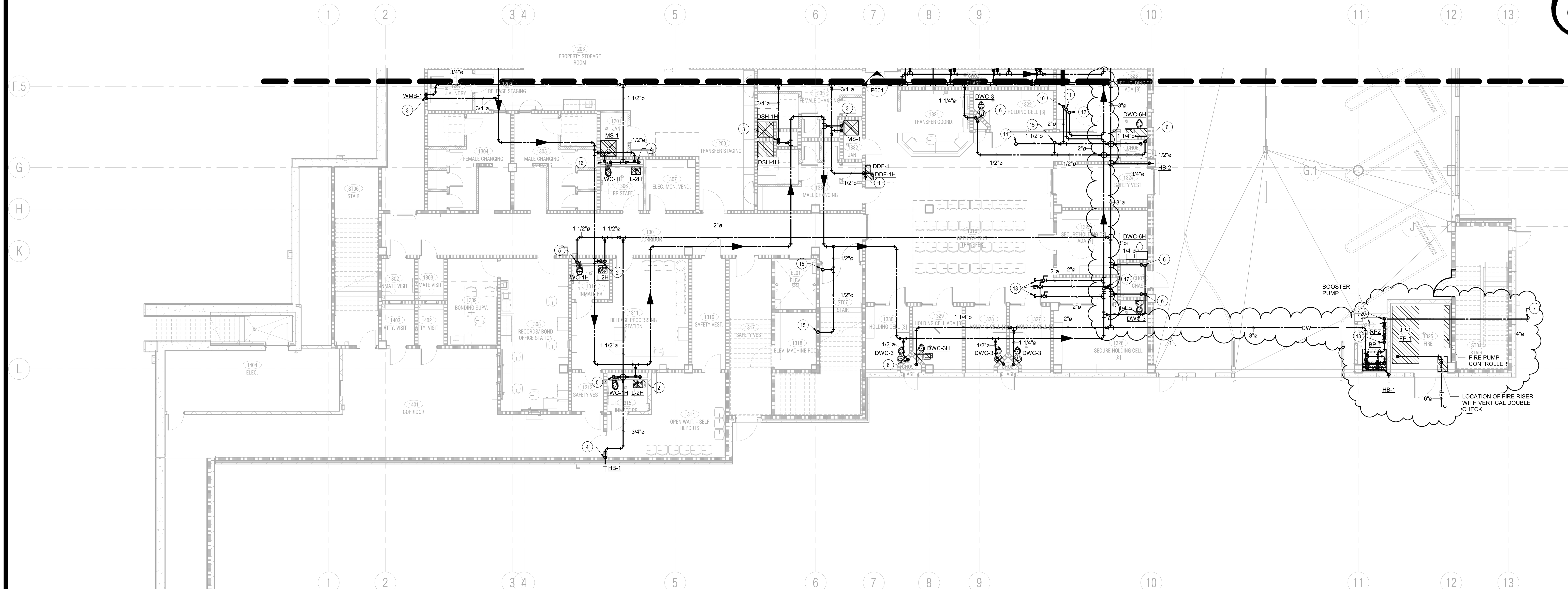
LICENSED PROFESSIONAL ENGINEER
8/16/21

LOWER LEVEL EAST FLOOR PLAN - PRESURE PIPE

MD ENGINEERING
Texas Registered Engineering Firm No. F-7489
1255 W est 15th Street, Suite 300 - Plano, TX. 75075
PH: 469.467.0200 FAX: 469.467.0300
Email: mdengca@md-eng.com Project No.: 201254

21913
07/13/2021
P301

FOR BID



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1 1/2" CW DOWN IN WALL TO FIXTURE.

2 1/2" CW/HW DOWN IN WALL TO FIXTURE.

3 3/4" CW/HW DOWN IN WALL TO FIXTURE.

4 3/4" CW DOWN IN WALL TO FIXTURE.

5 1-1/2" CW DOWN IN WALL TO FIXTURE.

6 1-1/4"CW AND 1/2" HW DOWN TO FIXTURES.

7 4" DOMESTIC WATER SERVICE REFER TO CIVIL FOR CONTINUATION.

8 NOT USED.

9 NOT USED.

10 CW UP TO SHUT OFF VALVE ON LEVEL 1. REFER TO SECTION ON 2/P602.

11 HW UP TO SHUT OFF VALVE ON LEVEL 1. REFER TO SECTION ON 2/P602.

12 HW(R) DOWN FROM ON LEVEL 1. REFER TO SECTION ON 2/P602.

13 PROVIDE SHUT OFF VALVE AND CAP DOMESTIC WATER PIPING FOR FUTURE ALTERNATE #1 ABOVE ACCESSIBLE CEILING.

14 CW UP.

15 1/2" HW UP TO FIRST LEVEL.

16 1-1/2" CW AND 3/4" HW DOWN TO FIXTURES.

17 SHUT-OFF VALVE. NORMALLY OPEN. CLOSET IF ALTERNATE #1 IS IN USE.

18 4" CW FROM RPZ TO BP-1. FOLLOW MANUFACTUERES RECOMMENDATIONS.

19 NOT USED.

20 4" CW UP TO RPZ.

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1 LOWER LEVEL WEST FLOOR PLAN - PRESURE PIPE
1/8" = 1'-0"

GRAPHIC SCALE
1/8"=1'-0"
0 2' 4' 8' 16'

TRUE NORTH

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COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY

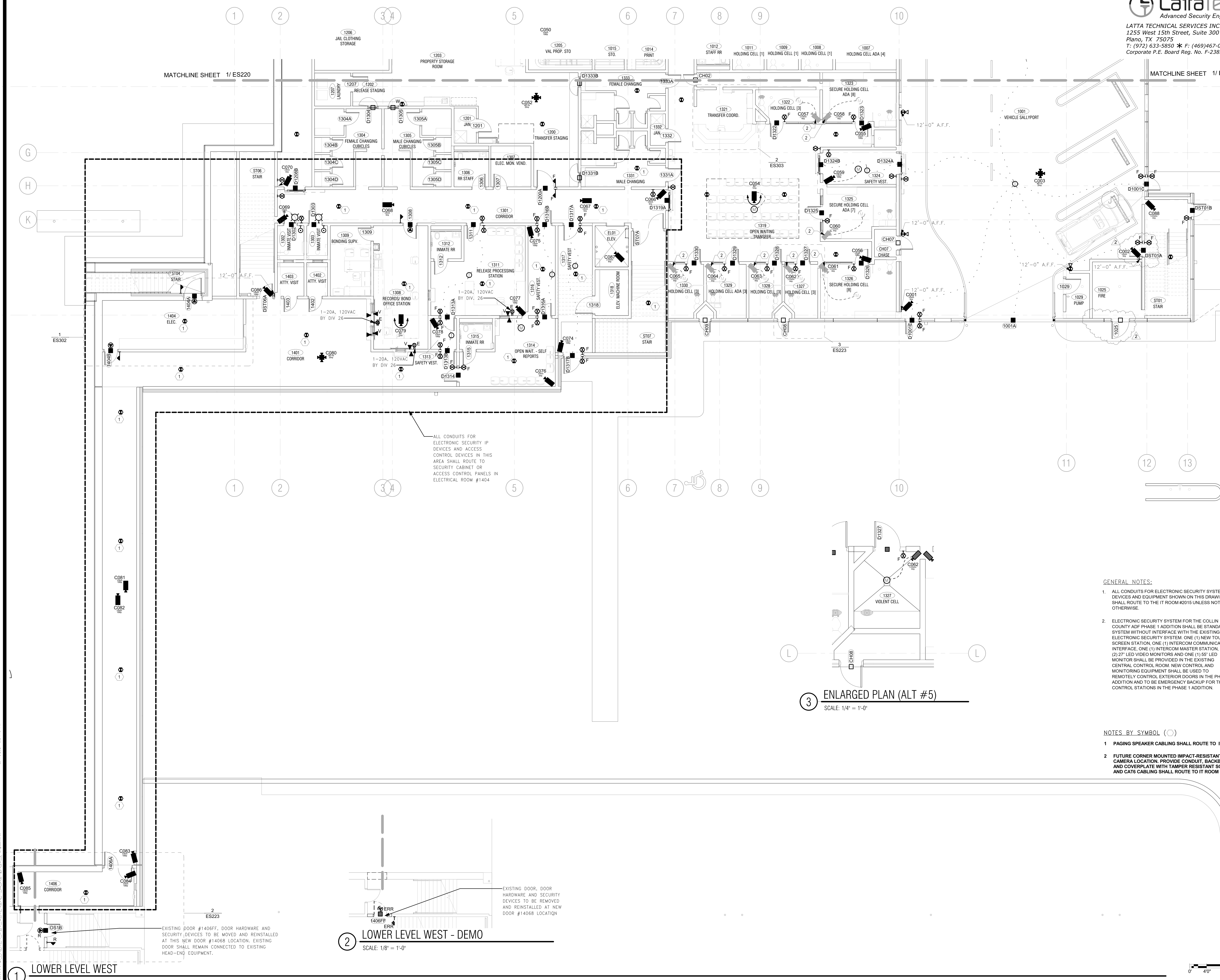
#	DATE	DESCRIPTION
1	08/18/2021	ADDENDUM #2

STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST FLOOR PLAN - PRESURE PIPE

21913
07/13/2021
P302

FOR BID



1 LOWER LEVEL WEST
SCALE: 1/8" = 1'-0"

2 LOWER LEVEL WEST - DEMO
SCALE: 1/8" = 1'-0"

3 ENLARGED PLAN (ALT #5)
SCALE: 1/4" = 1'-0"

LattaTech
Advanced Security Engineering
LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 * F: (469)467-0300
Corporate P.E. Board Reg. No. F-2383

GENERAL NOTES:

1. ALL CONDUITS FOR ELECTRONIC SECURITY SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL ROUTE TO THE IT ROOM #2015 UNLESS NOTED OTHERWISE.

2. ELECTRONIC SECURITY SYSTEM FOR THE COLLIN COUNTY ADF PHASE 1 ADDITION SHALL BE STANDALONE SYSTEM WITHOUT INTERFACE WITH THE EXISTING ELECTRONIC SECURITY SYSTEM. ONE (1) NEW TOUCH SCREEN STATION, ONE (1) INTERCOM COMMUNICATION INTERFACE, ONE (1) INTERCOM MASTER STATION, TWO (2) 27" LED VIDEO MONITORS AND ONE (1) 55" LED MONITOR SHALL BE PROVIDED IN THE EXISTING CENTRAL CONTROL ROOM. NEW CONTROL AND MONITORING EQUIPMENT SHALL BE USED TO REMOTELY CONTROL EXTERIOR DOORS IN THE PHASE 1 ADDITION AND TO BE EMERGENCY BACKUP FOR THE CONTROL STATIONS IN THE PHASE 1 ADDITION.

NOTES BY SYMBOL (⬡)

1 PAGING SPEAKER CABLING SHALL ROUTE TO IT ROOM #2015 .

2 FUTURE CORNER MOUNTED IMPACT-RESISTANT ANTI-LIGATURE CAMERA LOCATION. PROVIDE CONDUIT, BACKBOX, CAT6 CABLE AND COVERPLATE WITH TAMPER RESISTANT SCREWS. CONDUIT AND CAT6 CABLING SHALL ROUTE TO IT ROOM #2015.

BRINKLEY SARGENT WIGINTONARCHITECTS

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PROFESSIONAL ENGINEER
8/18/21

LOWER LEVEL WEST - FLOOR PLAN

21913
07/13/2021
ES223

FOR BID

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Advanced Security Engineering
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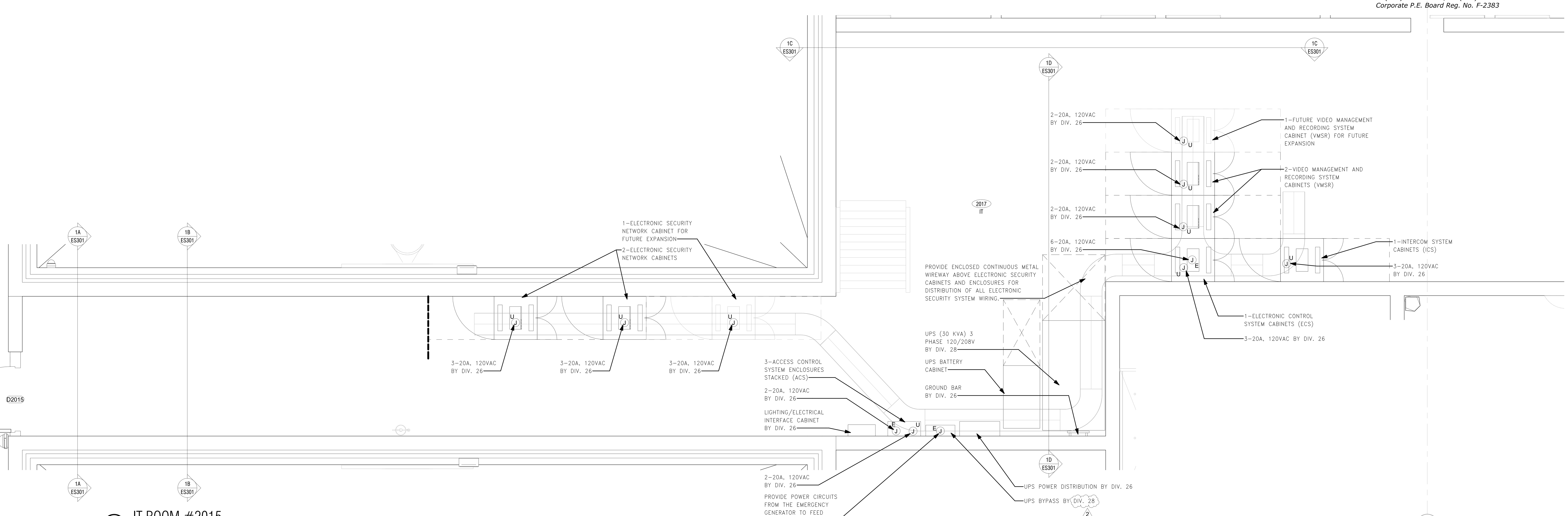
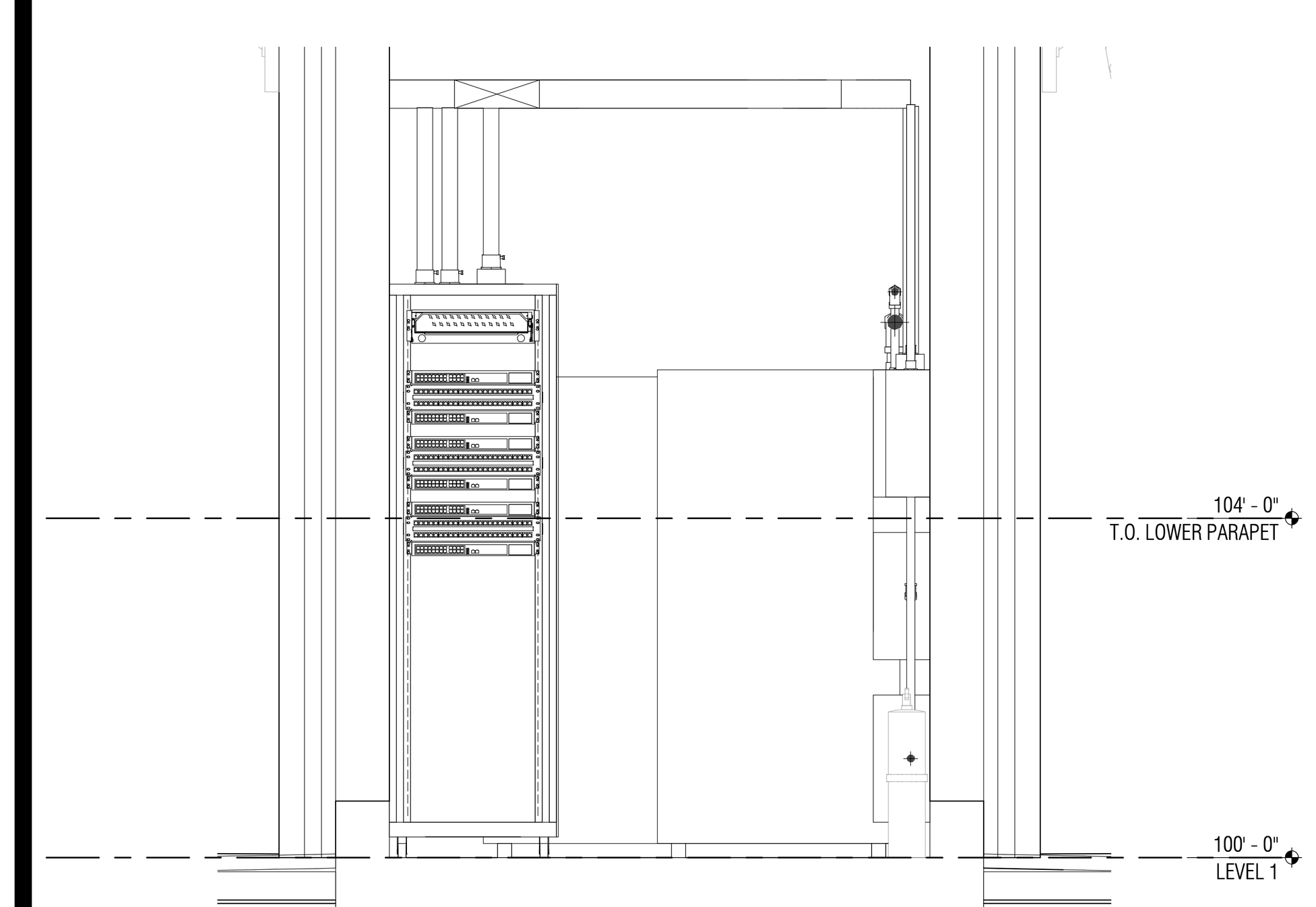
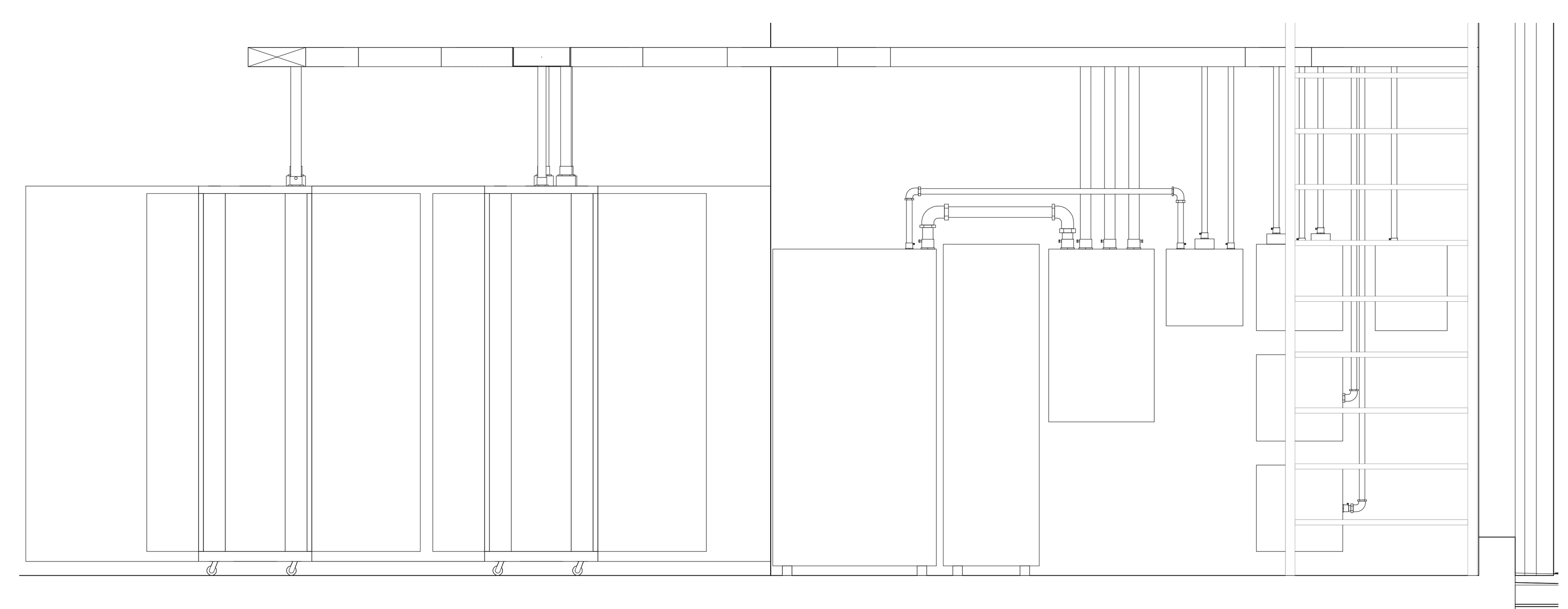


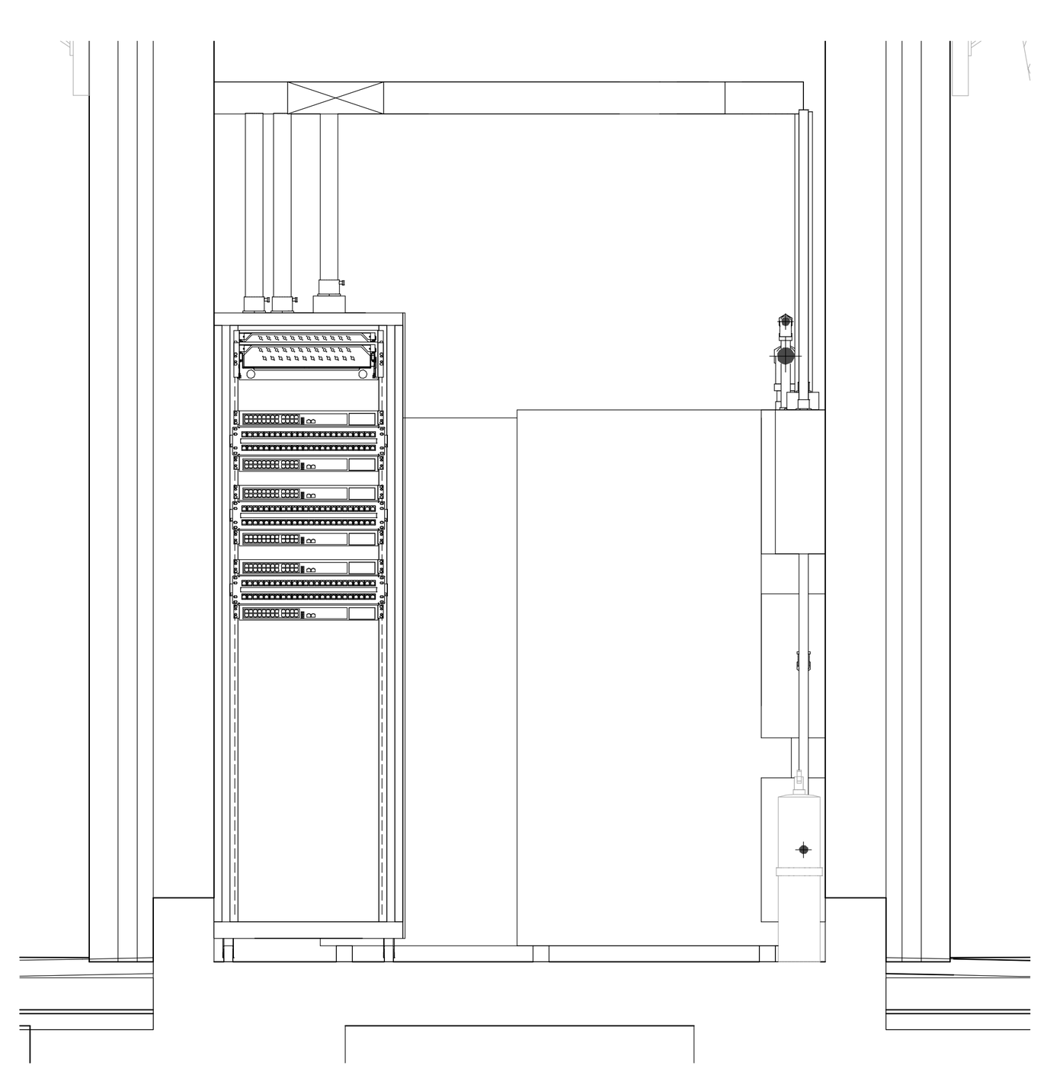
1 IT ROOM #2015
SCALE: 1/2" = 1'-0"



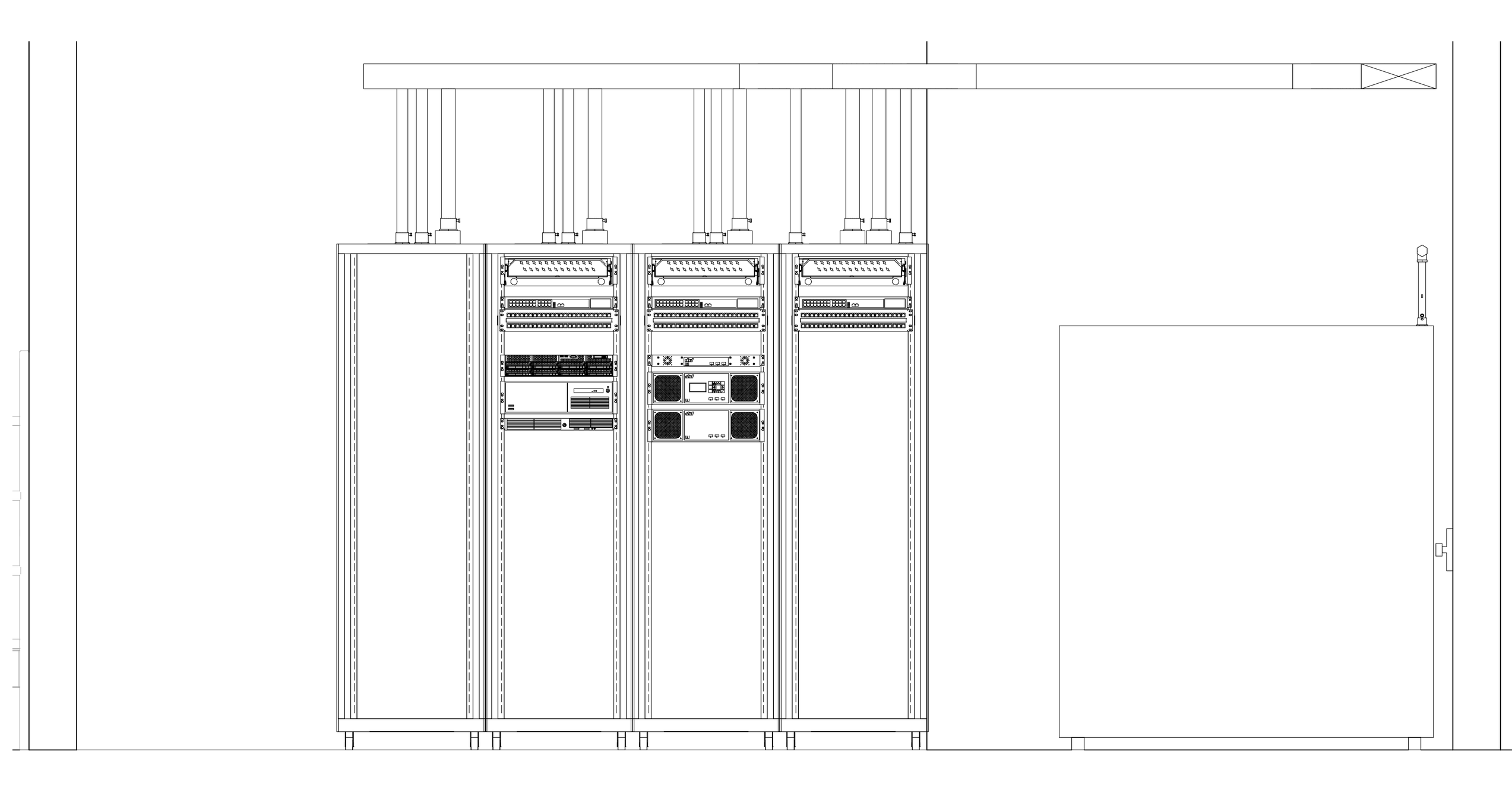
1A EQUIPMENT ELEVATION
SCALE: 1/2" = 1'-0"



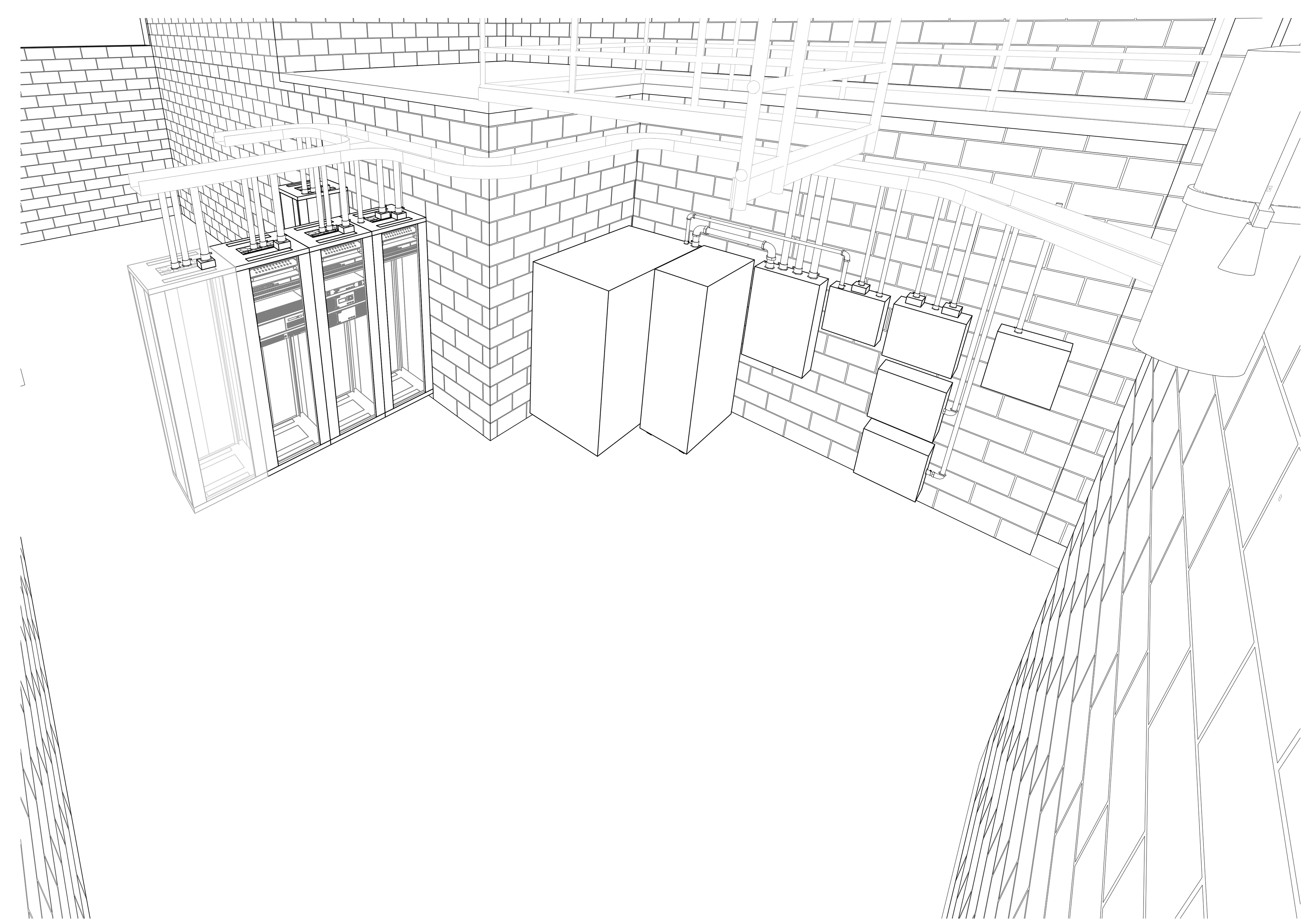
1C EQUIPMENT ELEVATION
SCALE: 1/2" = 1'-0"



1B EQUIPMENT ELEVATION
SCALE: 1/2" = 1'-0"



1D EQUIPMENT ELEVATION
SCALE: 1/2" = 1'-0"



1E IT ROOM #2015 VIEW
SCALE:

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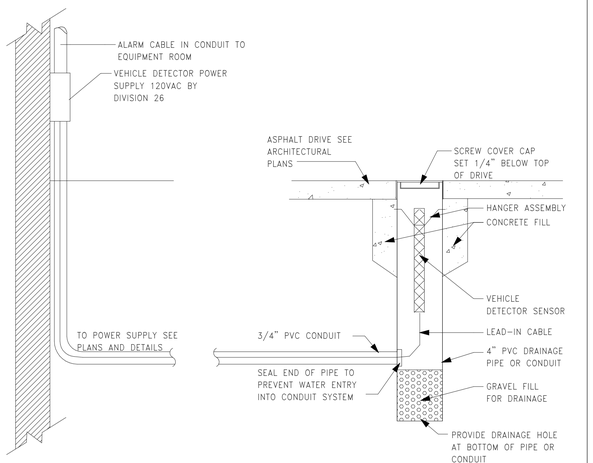
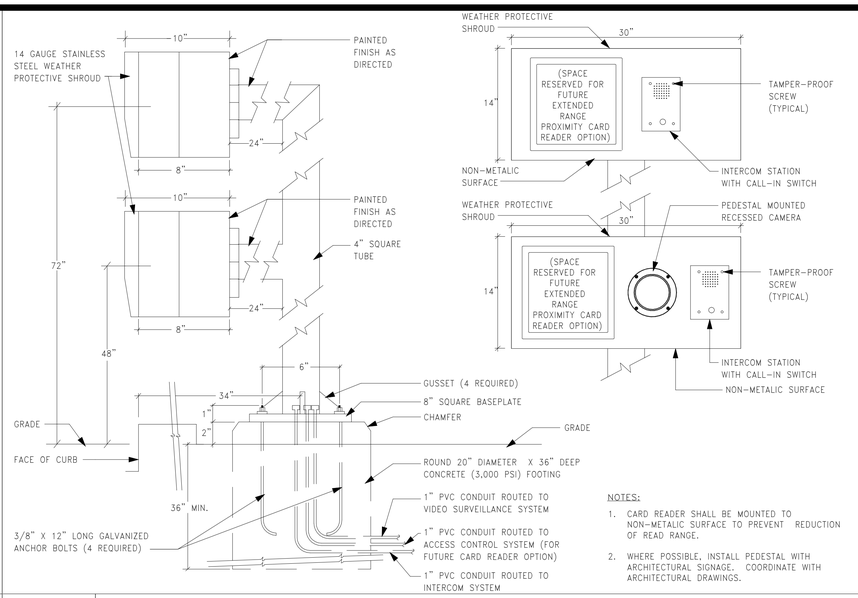
ENLARGED FLOOR PLANS

FOR BID

21913
07/13/2021
ES301



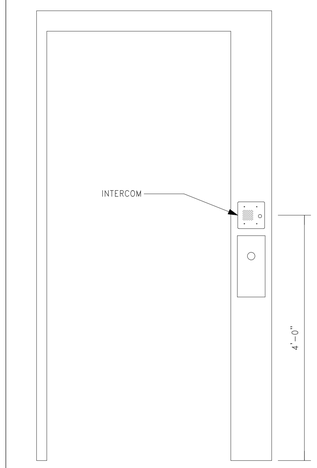
1	VEHICLE DETECTOR DETAIL
SCALE: N.T.S.	RE:



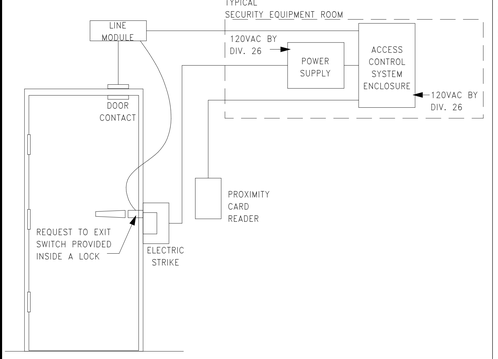
NOTES:

1. CARD READER SHALL BE MOUNTED TO NON-METALIC SURFACE TO PREVENT REDUCTION OF READ RANGE.
2. WHERE POSSIBLE, INSTALL PEDESTAL WITH ARCHITECTURAL SIGNAGE. COORDINATE WITH ARCHITECTURAL DRAWINGS.

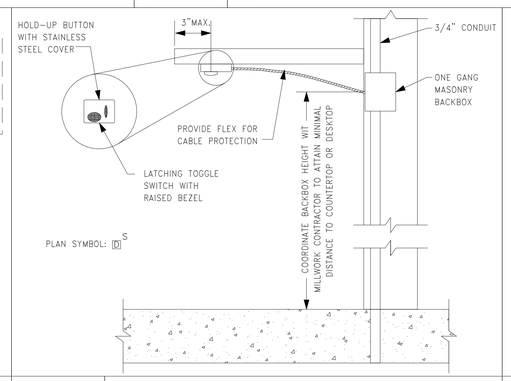
2	DUAL PEDESTAL MOUNTED INTERCOM WITH CAMERA
SCALE: N.T.S.	RE:



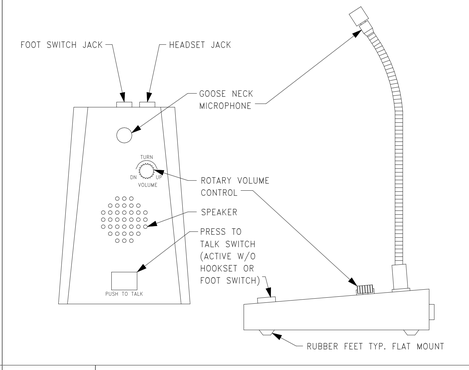
3	FRAME MOUNTED INTERCOM
SCALE: N.T.S.	RE:



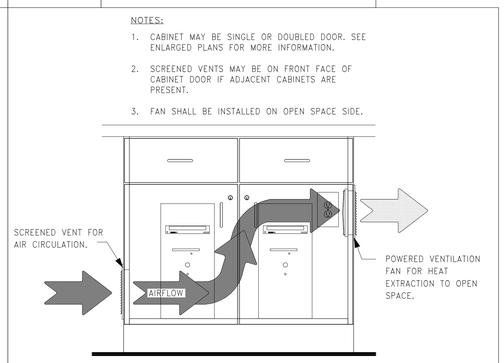
4	TYPICAL DOOR CONFIGURATION PROXIMITY CARD READER ENTRY
SCALE: N.T.S.	RE:



5	UNDER DESK PUSH BUTTON ALARM
SCALE: N.T.S.	RE:



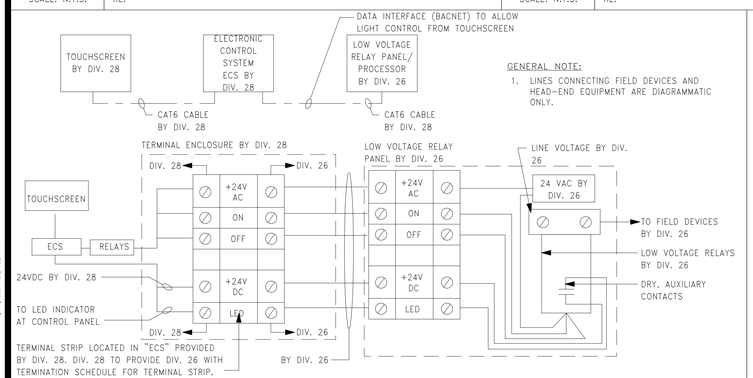
6	TOUCHSCREEN AUDIO INTERFACE
SCALE: N.T.S.	RE:



NOTES:

1. CABINET MAY BE SINGLE OR DOUBLED DOOR. SEE ENLARGED PLANS FOR MORE INFORMATION.
2. SCREENED VENTS MAY BE ON FRONT FACE OF CABINET DOOR IF ADJACENT CABINETS ARE PRESENT.
3. FAN SHALL BE INSTALLED ON OPEN SPACE SIDE.

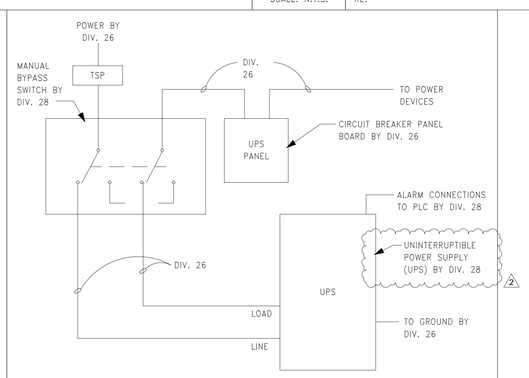
7	TYPICAL VENTILATED CABINET
SCALE: N.T.S.	RE:



GENERAL NOTE:

1. LINES CONNECTING FIELD DEVICES AND HEAD-END EQUIPMENT ARE DIAGRAMMATIC ONLY.

8	TYPICAL LOW VOLTAGE CONTROL DIAGRAM
SCALE: N.T.S.	RE:



9	UPS CONNECTION DIAGRAM -FLOOR MOUNTED
SCALE: N.T.S.	RE:

LattaTech
Advanced Security Engineering
LATTA TECHNICAL SERVICES INC.
1255 West 15th Street, Suite 300
Plano, TX 75075
T: (972) 633-5850 ✶ F: (469)467-0300
Corporate P.E. Board Reg. No. F-2383

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

HISTORY		
#	DATE	DESCRIPTION
2	08/18/2021	ADDENDUM #2

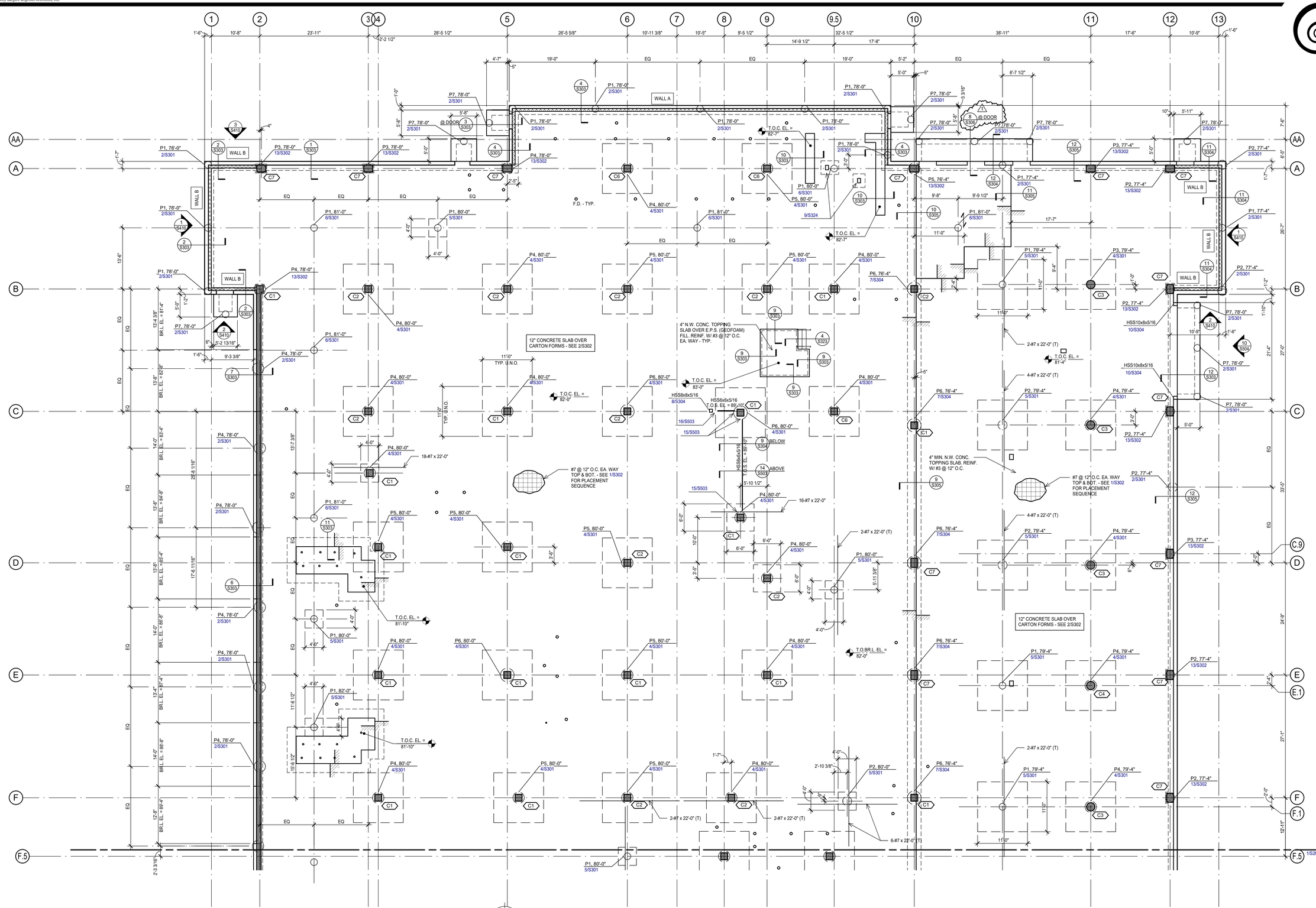
STATE OF TEXAS
MICHAEL JOSEPH SMITH
87333
LICENSED
PROFESSIONAL ENGINEER
8/18/21

DETAILS

21913
07/13/2021
ES403

FOR BID

8/17/2021 3:24:53 PM
C:\Users\mgarcia\Documents\CCAA_Security_CENTRAL_v20_mgarcia@mail-eng.com.rvt



1 LOWER LEVEL EAST - FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

north

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 82'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 608.5' = 82'-0".
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
   B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
6. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.

SHEET INDEX:

shaping the built environment

JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350
512.474.9094
AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaTaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

History

#	Date	Description
1	8/18/2021	Addendum 2

8/18/21

STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED
PROFESSIONAL ENGINEER

07/13/2021

LOWER LEVEL EAST - FOUNDATION PLAN

BID SET

21913
07/13/2021
S201

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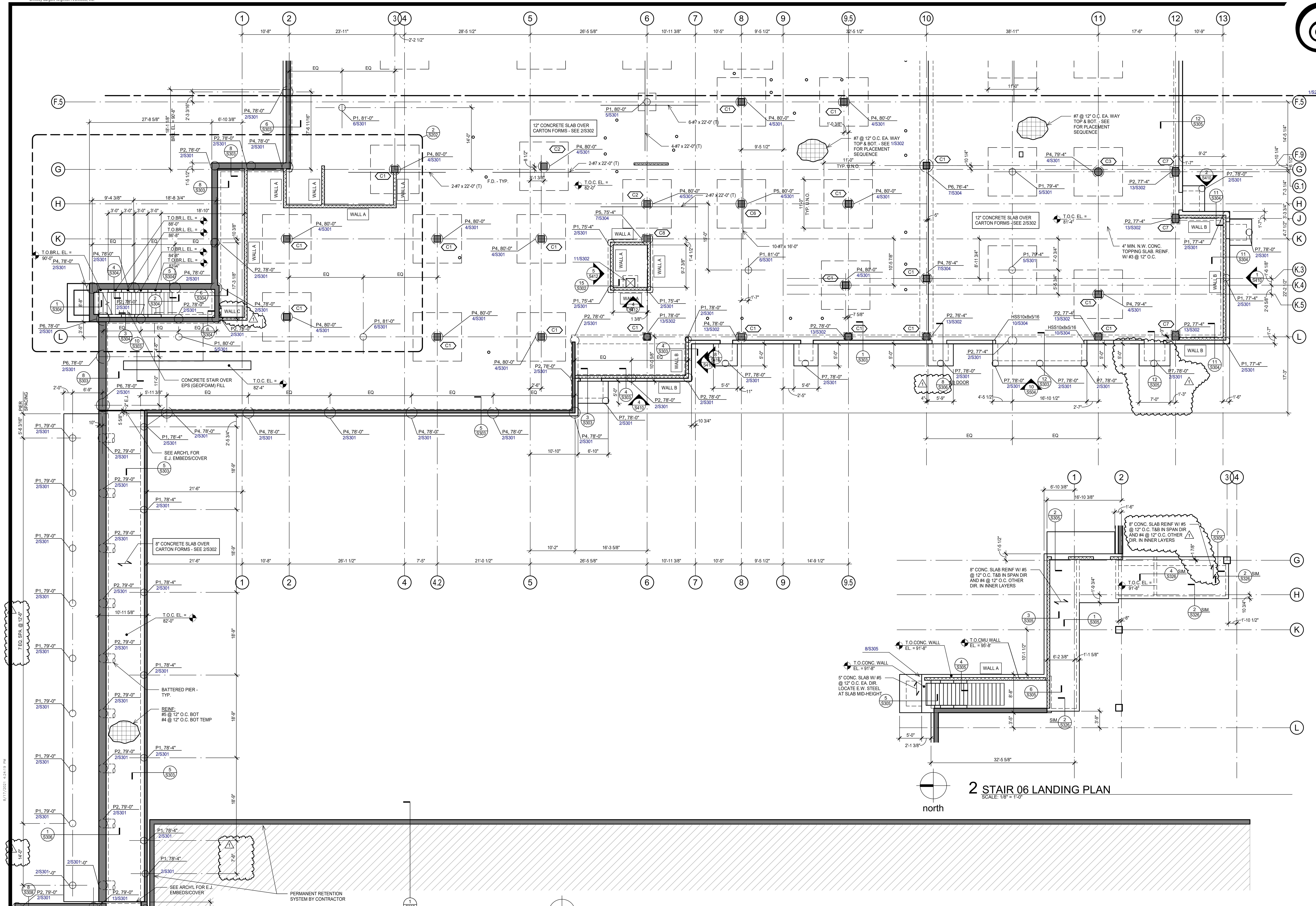

2 STAIR 06 LANDING PLAN
SCALE: 1/8" = 1'-0"

1 LOWER LEVEL WEST - FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 82'-0", UNLESS NOTED OTHERWISE. ACTUAL ELEVATION 608.5' = 82'-0".
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
   A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
   B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
   C. COLUMNS EMBEDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
6. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.

SHEET INDEX:

STRUCTURAL NOTES	- S101, S102
TYPICAL CONCRETE DETAILS	- S301, S302, S303
PIER SCHEDULE	- S301
CONC. COLUMN SCHEDULE	- S601

JQ ENGINEERING, LLP
PROJECT NO: 3200110
TBPE FIRM F-1294

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE, MCKINNEY, TX 75071

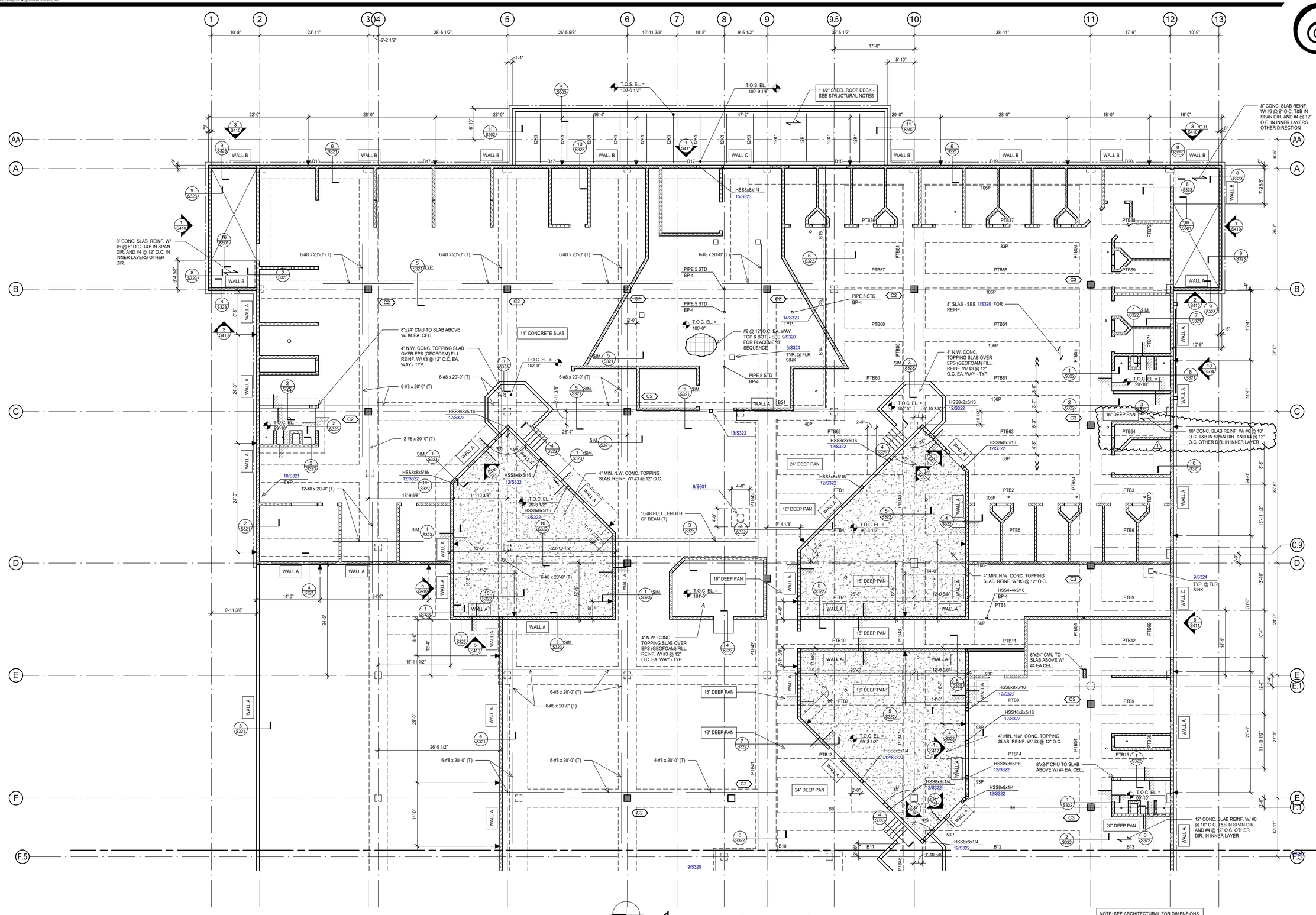
History

#	Date	Description
1	8/18/2021	Addendum 2

MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER 07/13/2021

LOWER LEVEL WEST - FOUNDATION PLAN

21913
07/13/2021
S202
BID SET



1 LEVEL 1 EAST - FRAMING PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE.
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS FOR FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. TYPICAL CONCRETE PAN SLAB THICKNESS IS 8" (OVERALL), UNLESS NOTED OTHERWISE.
6. SEE PLAN FOR PAN WIDTH.
7. PAN SIZES SHOWN TO BE LARGER THAN "53P" SHALL BE TWO STANDARD PANS USED TOGETHER,
8. POST TENSIONED BEAMS SHALL NOT BE STRESSED UNTIL THE TIER LEVEL SLAB HAS BEEN POURED AND REACHED 60% OF ITS 28 DAY CONCRETE STRENGTH.
9. STEEL JOISTS SHALL BE EQUALLY SPACED BETWEEN CMU WALLS, UNLESS NOTED OTHERWISE.

SHEET INDEX:

NOTE: SEE ARCHITECTURAL FOR DIMENSIONS, LOCATIONS, AND TYPES OF ALL CMU WALLS. DO NOT SCALE STRUCTURAL DRAWINGS OR ELECTRONIC MEDIA.

shaping the built environment

JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350
512.474.9094
AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294

BRINKLEY SARGENT WIGINTON ARCHITECTS

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MEP / IT: MD Engineering (469) 467-0200
Security: LaftaTech (972) 633-3850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
#	Date	Description
1	8/18/2021	Addendum 2

8/18/21

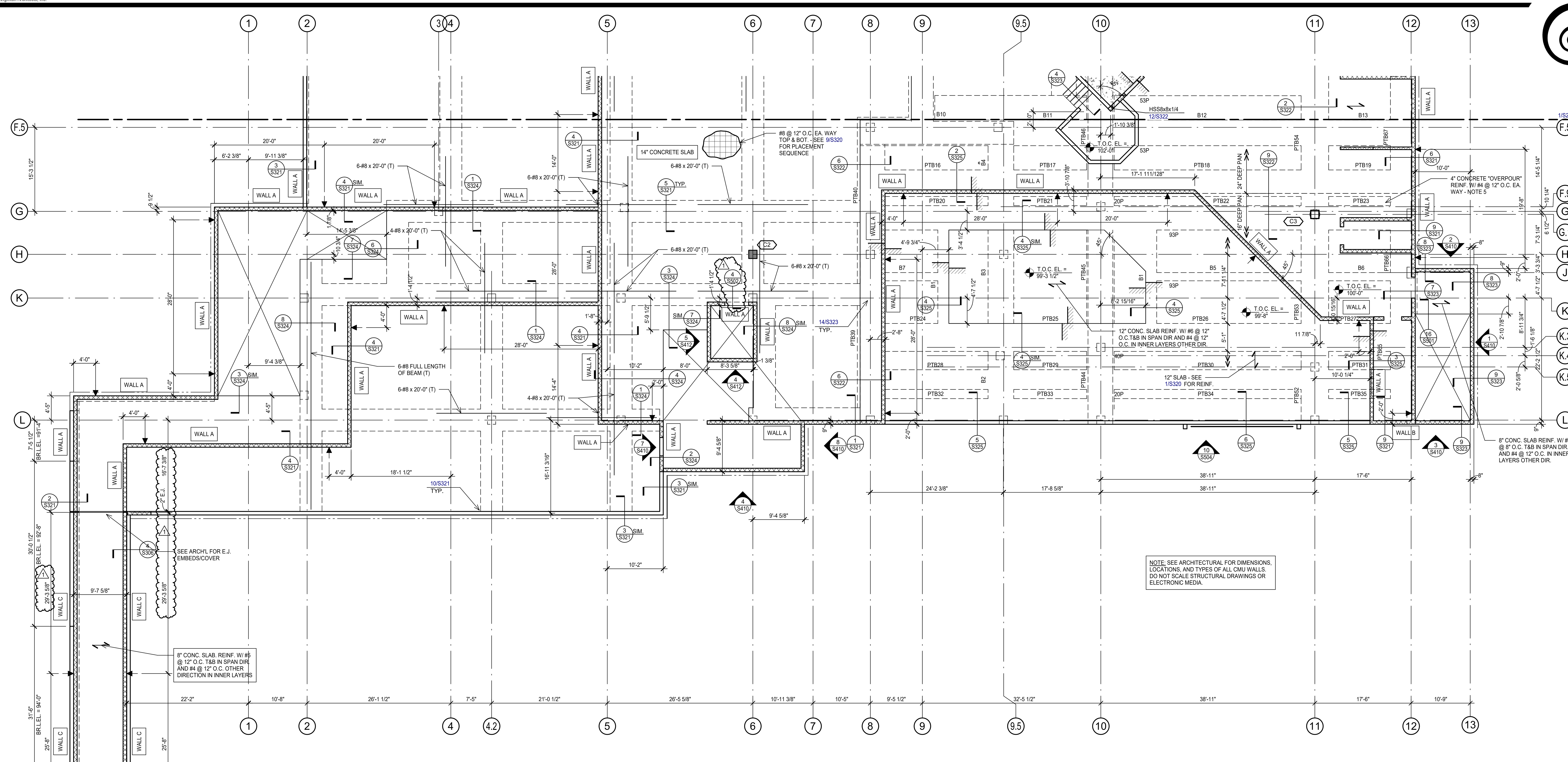
REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER

07/13/2021

LEVEL 1 EAST - FRAMING PLAN

BID SET

21913 | 07/13/2021 | S211



north

1 LEVEL 1 WEST - FRAMING PLAN

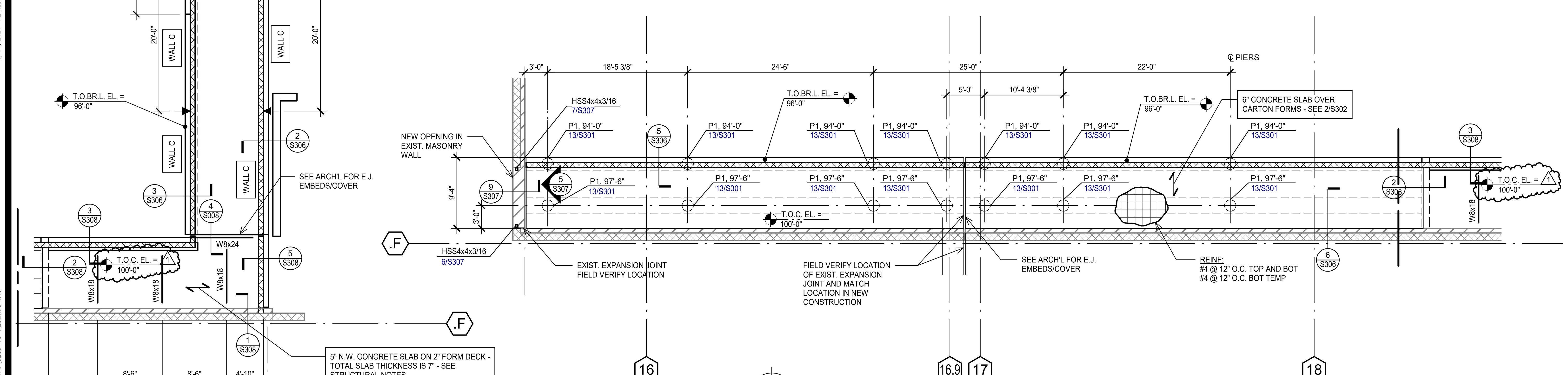
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE.
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS FOR FLOOR PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
5. TYPICAL CONCRETE PAN SLAB THICKNESS IS 8" (OVERALL), UNLESS NOTED OTHERWISE.
6. TYPICAL PAN SIZE IS 53" WIDE AND 24" DEEP UNLESS NOTED OTHERWISE. SPECIAL PAN WIDTHS ARE NOTED AS "20P".
7. PAN SIZES SHOWN TO BE LARGER THAN "53P" SHALL BE TWO STANDARD PANS USED TOGETHER,
8. POST TENSIONED BEAMS SHALL NOT BE STRESSED UNTIL THE TIER LEVEL SLAB HAS BEEN POURED AND REACHED 60% OF ITS 28 DAY CONCRETE STRENGTH.
9. STEEL JOISTS SHALL BE EQUALLY SPACED BETWEEN CMU WALLS, UNLESS NOTED OTHERWISE.

SHEET INDEX:

STRUCTURAL NOTES	- S101, S102
TYPICAL CONCRETE DETAILS	- S301, S302, S303
TYPICAL MASONRY DETAILS	- S401, S402
CONC. BEAM SCHEDULE	- S602
CONC. COLUMN SCHEDULE	- S601



north

2 LEVEL 1 WEST - FRAMING PLAN

SCALE: 1/8" = 1'-0"

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History

#	Date	Description
1	8/18/2021	Addendum 2

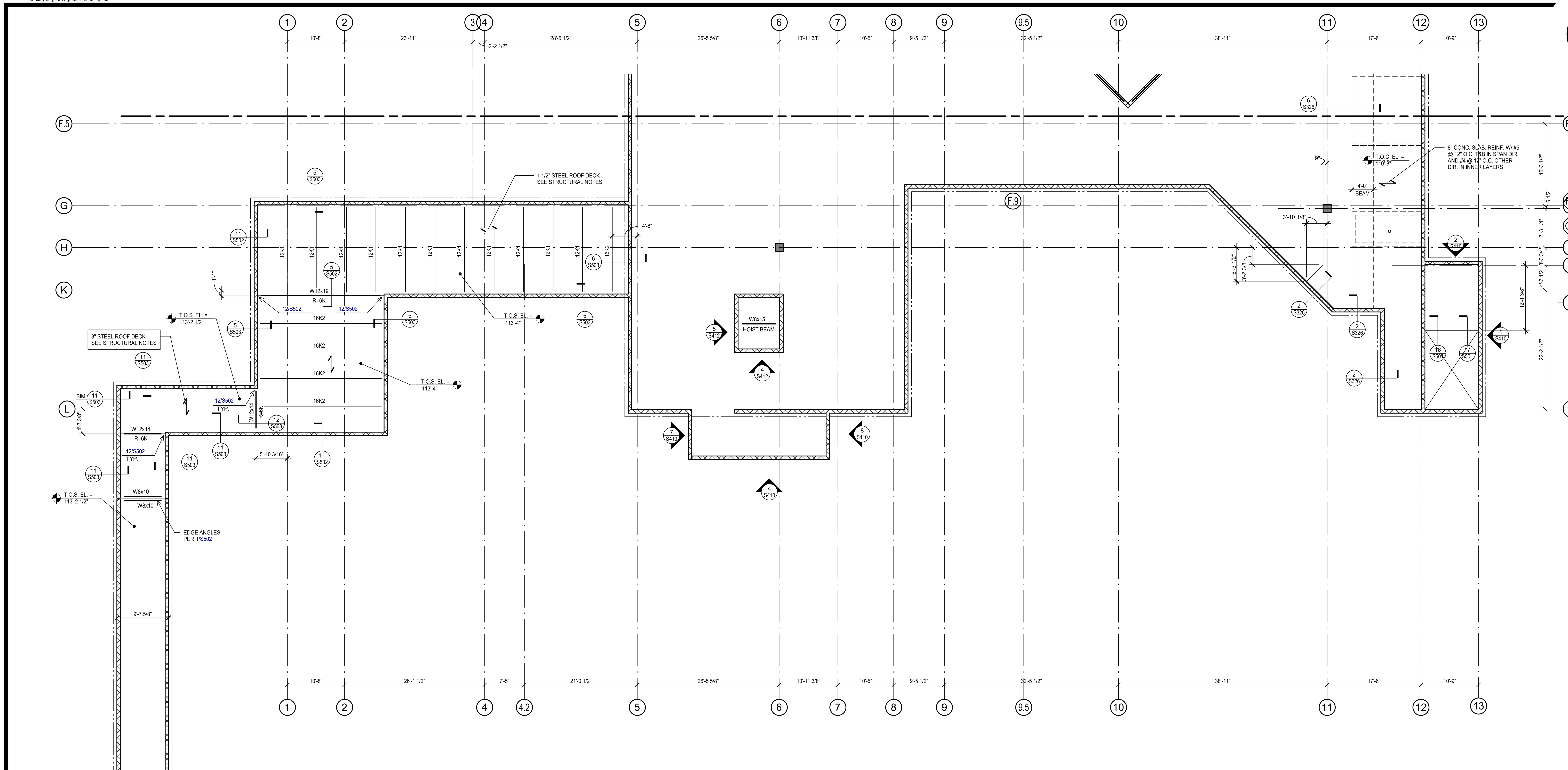
MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER 8/18/21 07/13/2021

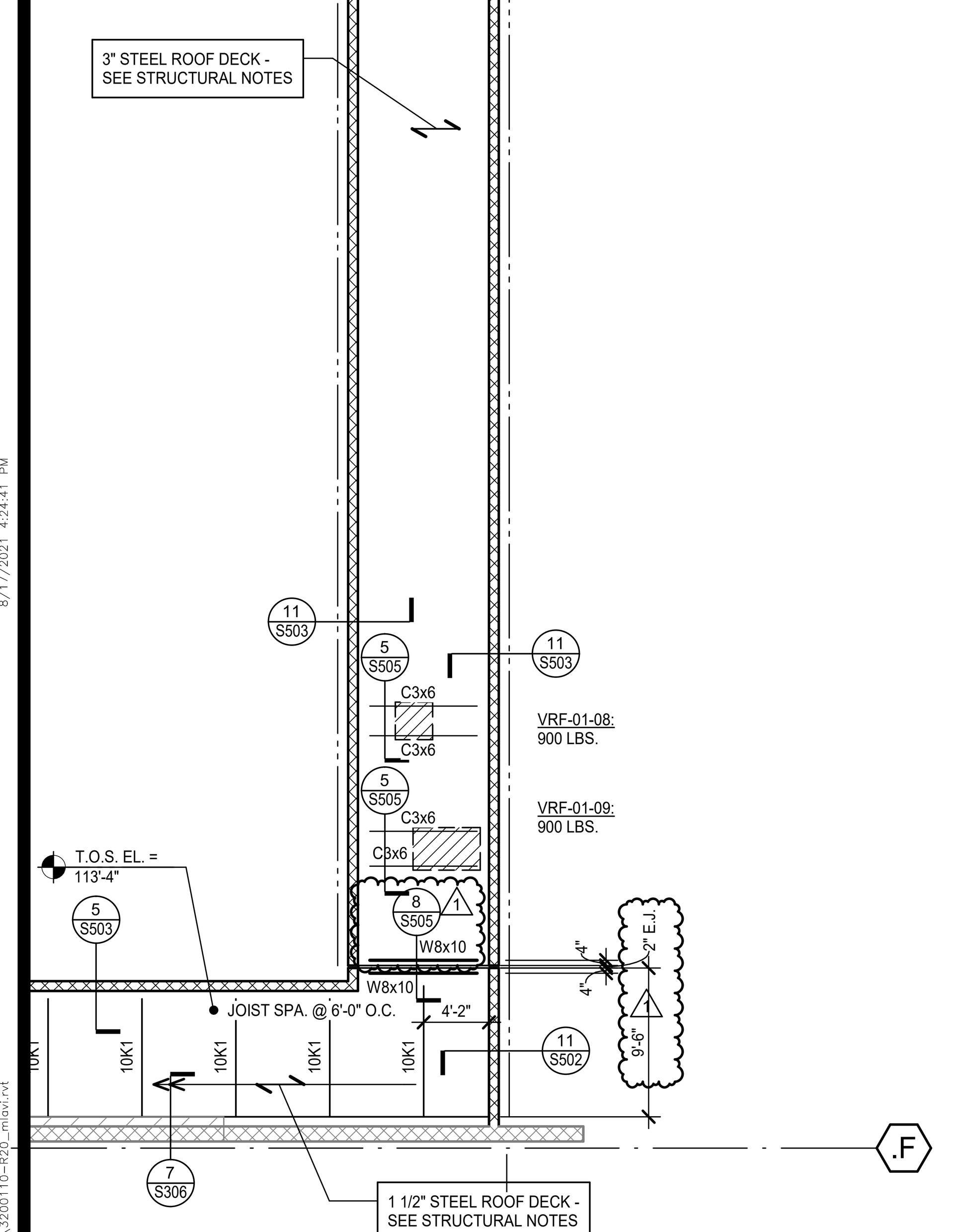
shaping the built environment JQ
JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350 AUSTIN, TEXAS 78746
512.474.9094 JQENG.COM
PROJECT NO: 3200110 TBPE FIRM F-1294

LEVEL 1 WEST - FRAMING PLAN

21913
07/13/2021
S212

BID SET





NOTE:
SEE ARCHITECTURAL FOR DIMENSIONS, LOCATIONS, AND TYPES OF ALL CMU WALLS. DO NOT SCALE STRUCTURAL DRAWINGS OR ELECTRONIC MEDIA.

north

1 2ND TIER LEVEL WEST - FRAMING PLAN

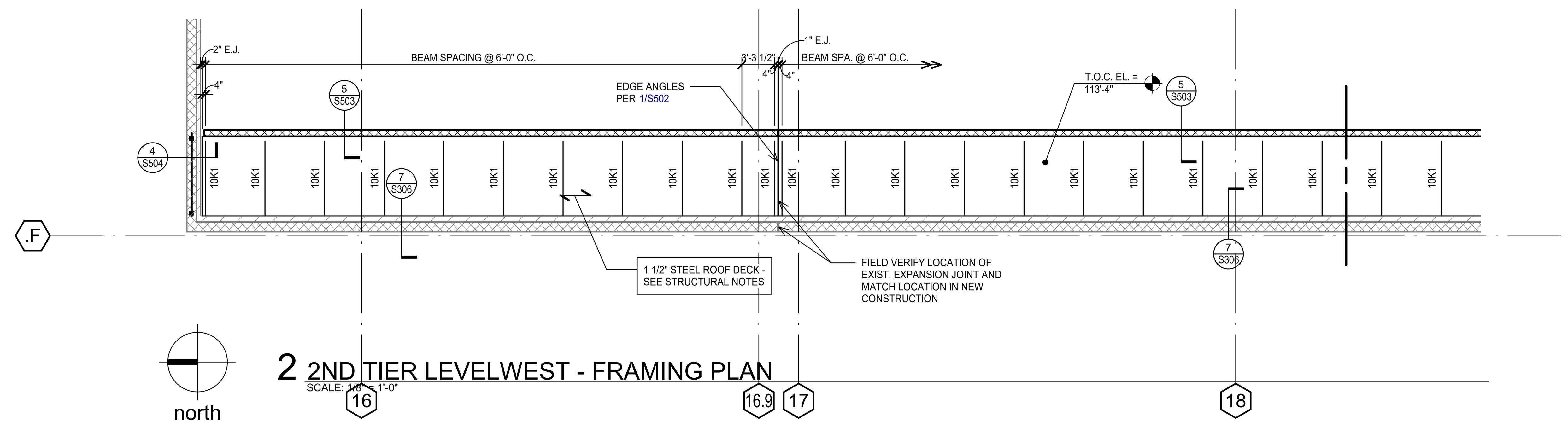
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
2. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
3. STEEL JOISTS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
4. SEE SHEET S107 FOR NET UPLIFT LOADS FOR JOIST DESIGN.

SHEET INDEX:

STRUCTURAL NOTES	- S101, S102
TYPICAL CONCRETE DETAILS	- S301, S302, S303
TYPICAL MASONRY DETAILS	- S401, S402
CONC. BEAM SCHEDULE	- S602
CONC. COLUMN SCHEDULE	- S601



north

2 2ND TIER LEVELWEST - FRAMING PLAN

SCALE: 1/8" = 1'-0"

shaping the built environment JQ
JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350 AUSTIN, TEXAS 78746
512.474.9094 JQENG.COM
PROJECT NO: 3200110 TBPE FIRM F-1294

BRINKLEY SARGENT WIGINTON ARCHITECTS

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (972) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History

#	Date	Description
1	8/18/2021	Addendum 2

STATE OF TEXAS MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER 8/18/21 07/13/2021

2ND TIER LEVEL WEST - FRAMING PLAN

21913
07/13/2021
S222

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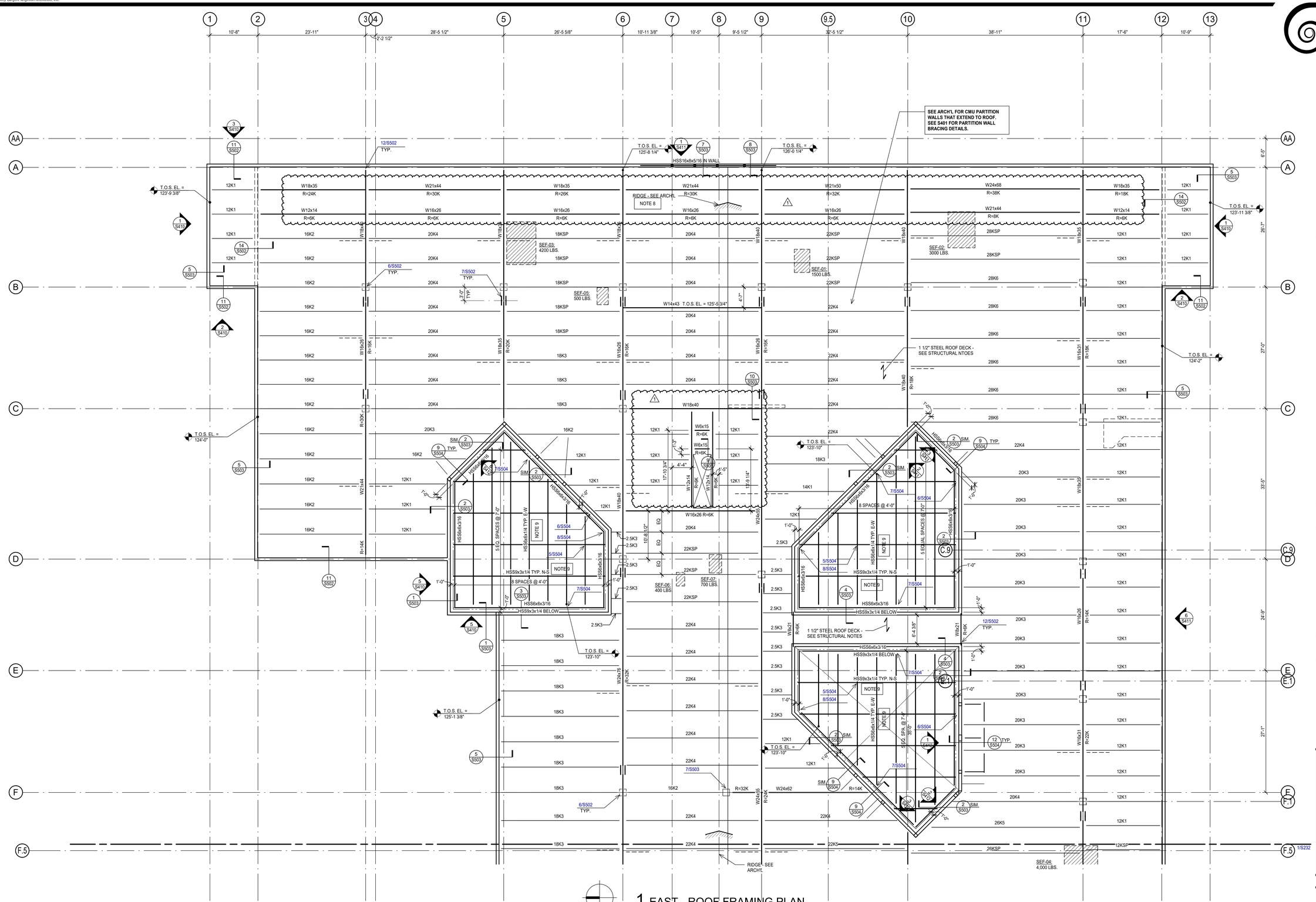

1 EAST - ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

north

PLAN NOTES:

1. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
2. TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
4. STEEL JOISTS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
5. JOISTS NOTED AS "SP" ARE SPECIAL DESIGNS TO BE PROVIDED BY SUPPLIER FOR LOADINGS INDICATED.
   JOIST UNIFORM LOADS: TL=260 PLF, LL=130 PLF (SERVICE LOADS)
6. SEE SHEET 1/S105 FOR NET UPLIFT LOADS FOR JOIST DESIGN.
7. PROVIDE BEAM FLANGE BRACING AT ALL GIRDERS PER 14/S501 .
8. PROVIDE TAPERED INSULATION BETWEEN GRIDS 6 & 9 AS REQUIRED FOR ROOF SLOPE.
9. ALL SECURITY BARRIER SUPPORT FRAMING TO BE HOT DIP GALVNIZED.

SHEET INDEX:

STRUCTURAL NOTES	- S101, S102
TYPICAL MASONRY DETAILS	- S401, S402
TYPCIAL STEEL DETAILS	- S501, S502
CONC. COLUMN SCHEDULE	- S601

NOTE:
SEE ARCHITECTURAL FOR DIMENSIONS, LOCATIONS, AND TYPES OF ALL CMU WALLS. DO NOT SCALE STRUCTURAL DRAWINGS OR ELECTRONIC MEDIA.

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

Architect: Brinkley Sargent Wginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
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BRINKLEY SARGENT WIGINTON ARCHITECTS

History		
#	Date	Description
1	8/18/2021	Addendum 2

8/18/21

STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED PROFESSIONAL ENGINEER
07/13/2021

ROOF EAST - FRAMING PLAN

shaping the built environment
JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350
512.474.9094
AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294

21913
07/13/2021
S231

BID SET

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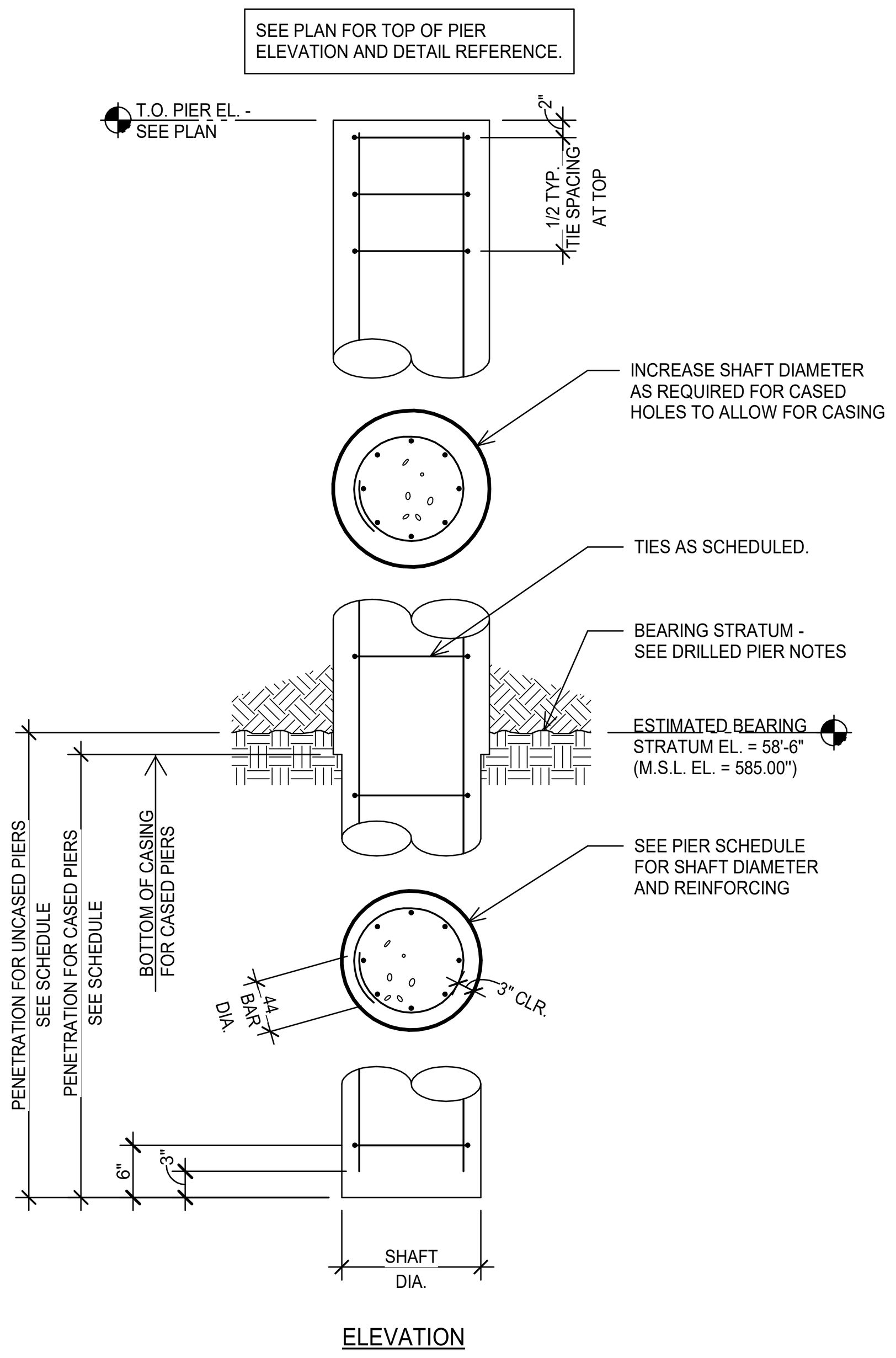
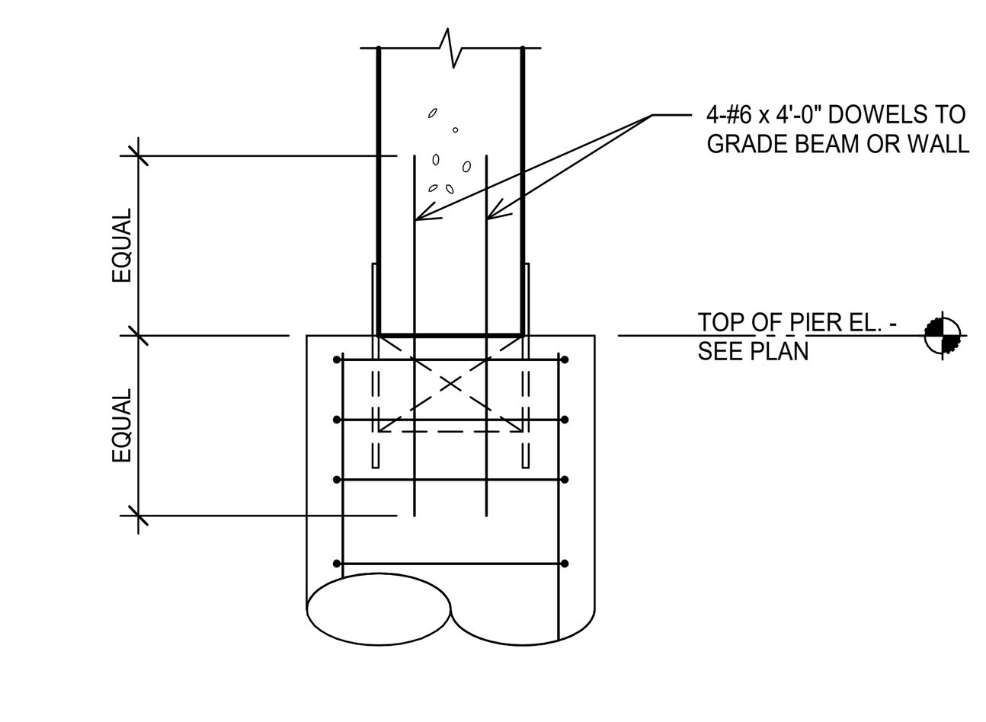


ELEVATION

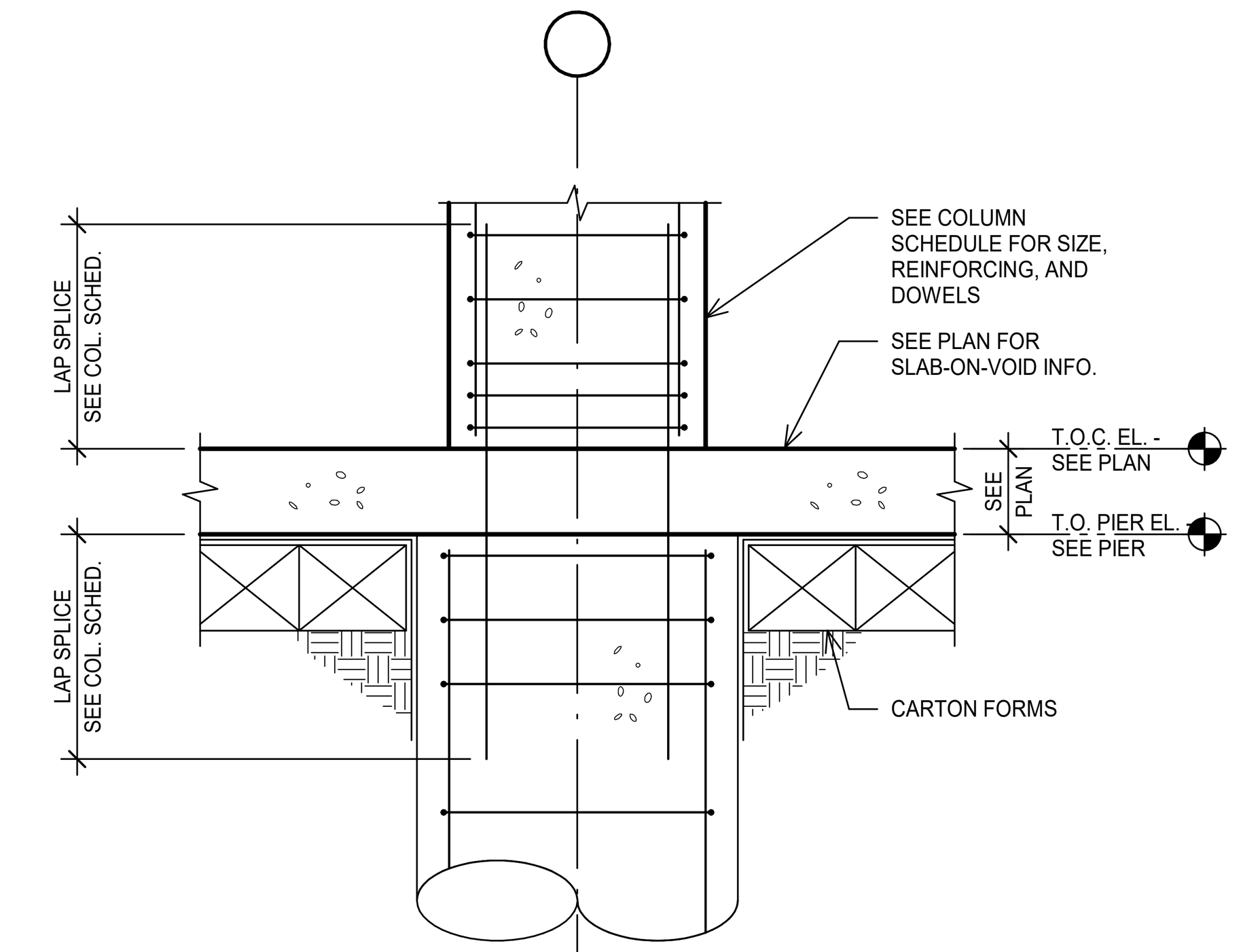
PIER SCHEDULE - STRAIGHT SHAFT					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY
P1	1'-6"	8-#6	#3 @ 12" O.C.	6'-0"	255 KIPS
P2	2'-0"	8-#7	#3 @ 12" O.C.	8'-0"	450 KIPS
P3	2'-0"	8-#7	#3 @ 12" O.C.	10'-0"	550 KIPS
P4	2'-6"	8-#8	#3 @ 12" O.C.	10'-0"	705 KIPS
P5	2'-6"	8-#8	#3 @ 12" O.C.	14'-0"	955 KIPS
P6	3'-0"	8-#9	#3 @ 12" O.C.	14'-0"	1165 KIPS
P7	1'-6"	8-#6	#3 @ 12" O.C.	10'-0"	405 KIPS

1

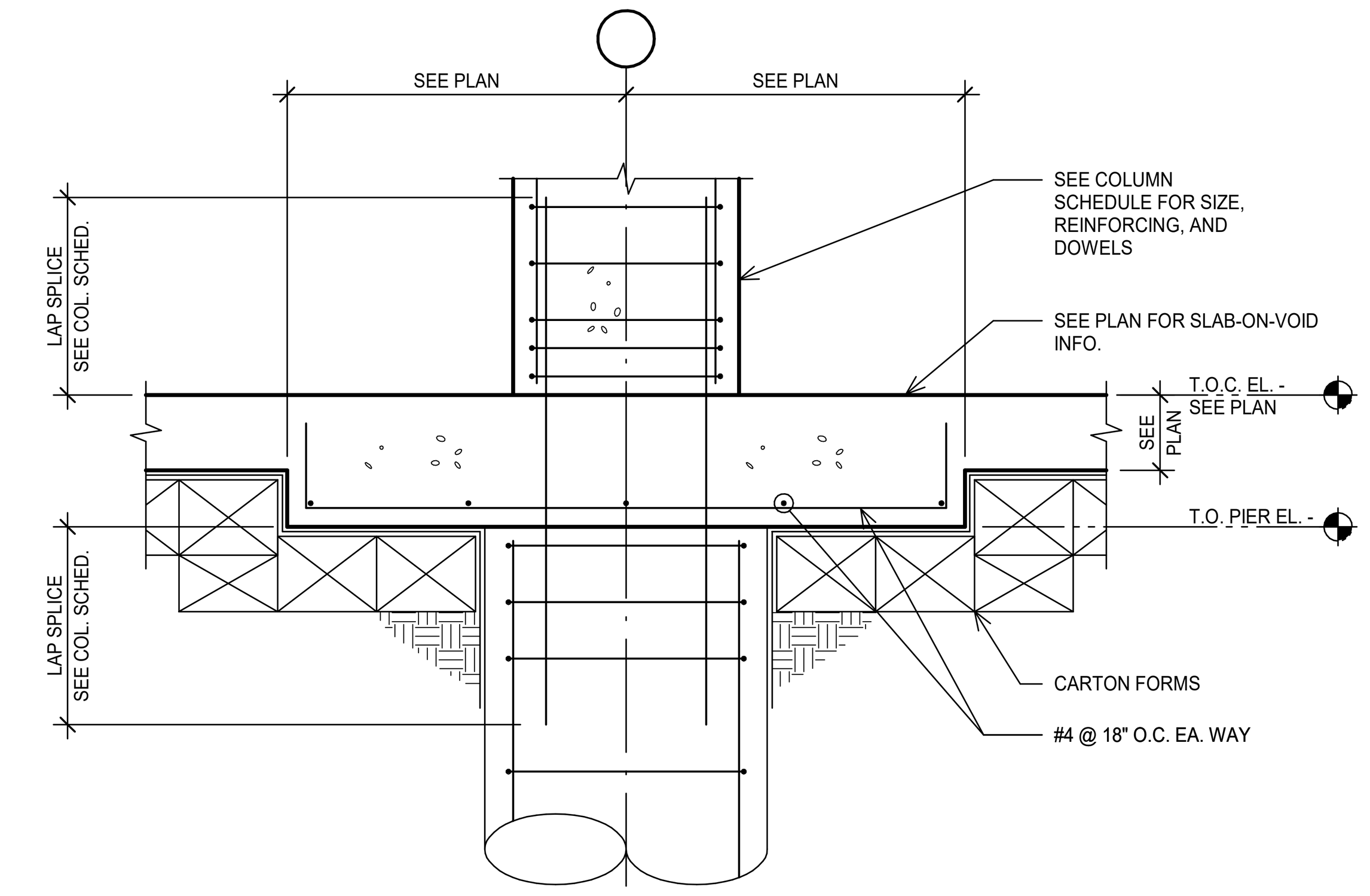
1 TYPICAL CASED DRILLED PIER DETAIL
NO SCALE



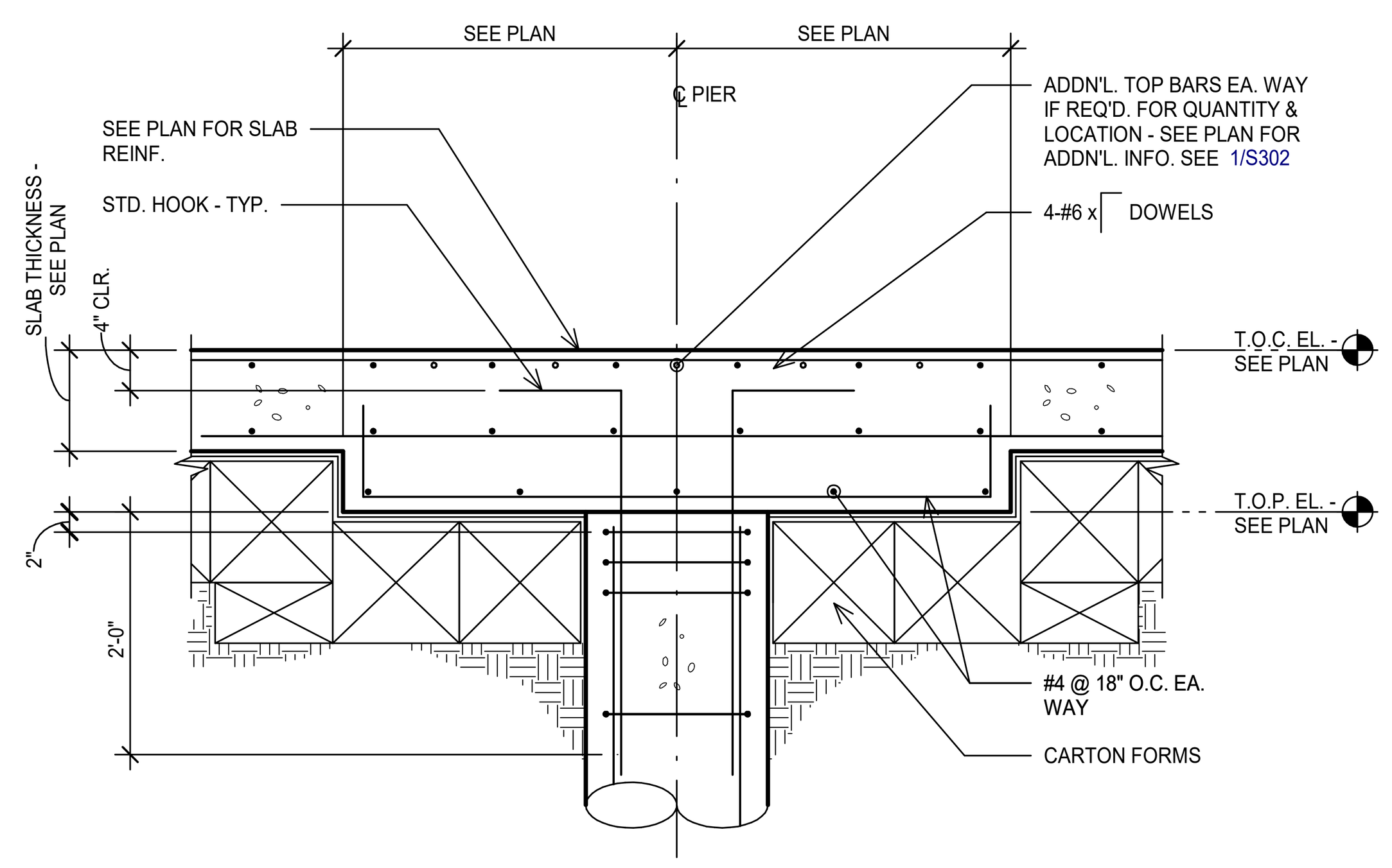
2 TYPICAL GRADE BEAM OR WALL TOP OF PIER DETAIL
NO SCALE



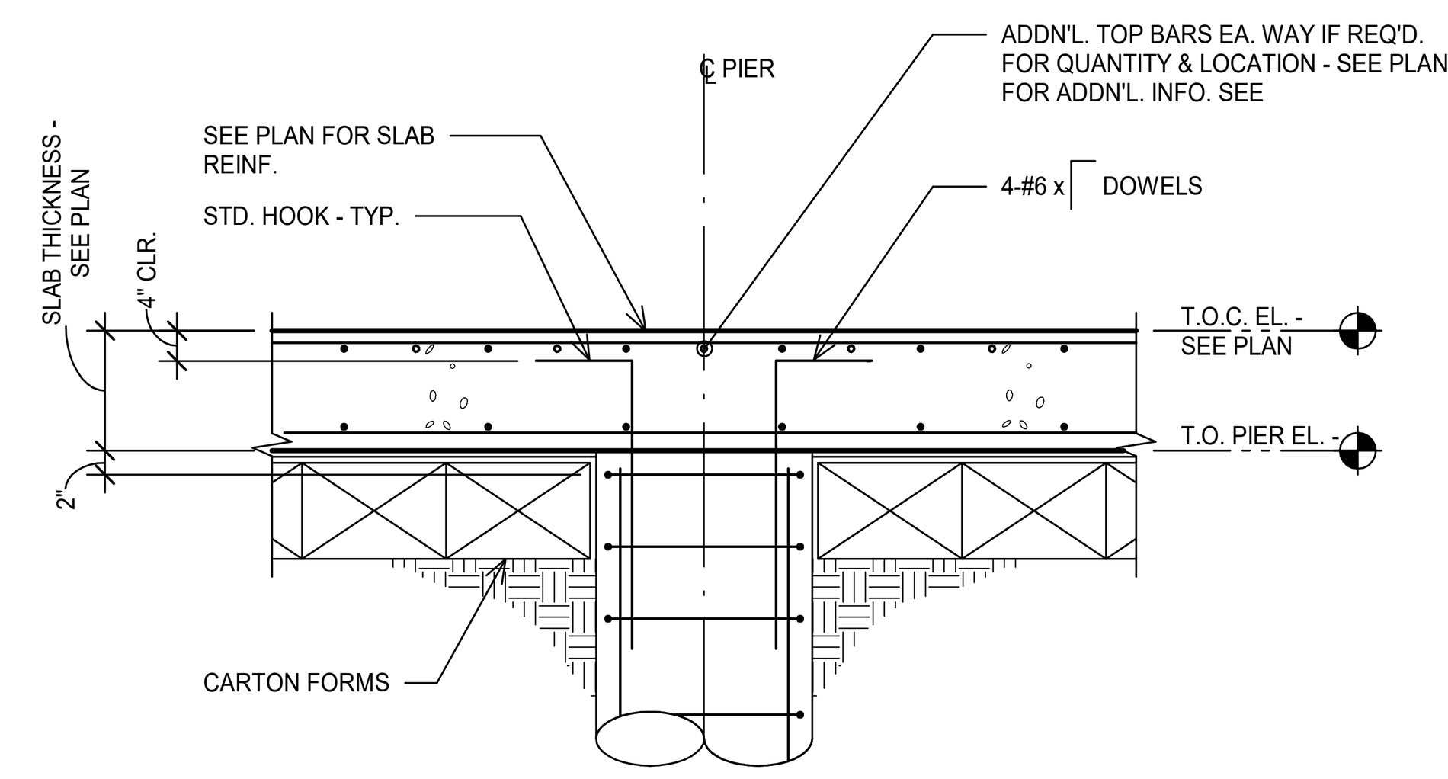
3 TYPICAL CONCRETE COLUMN ABOVE PIER DETAIL
NO SCALE



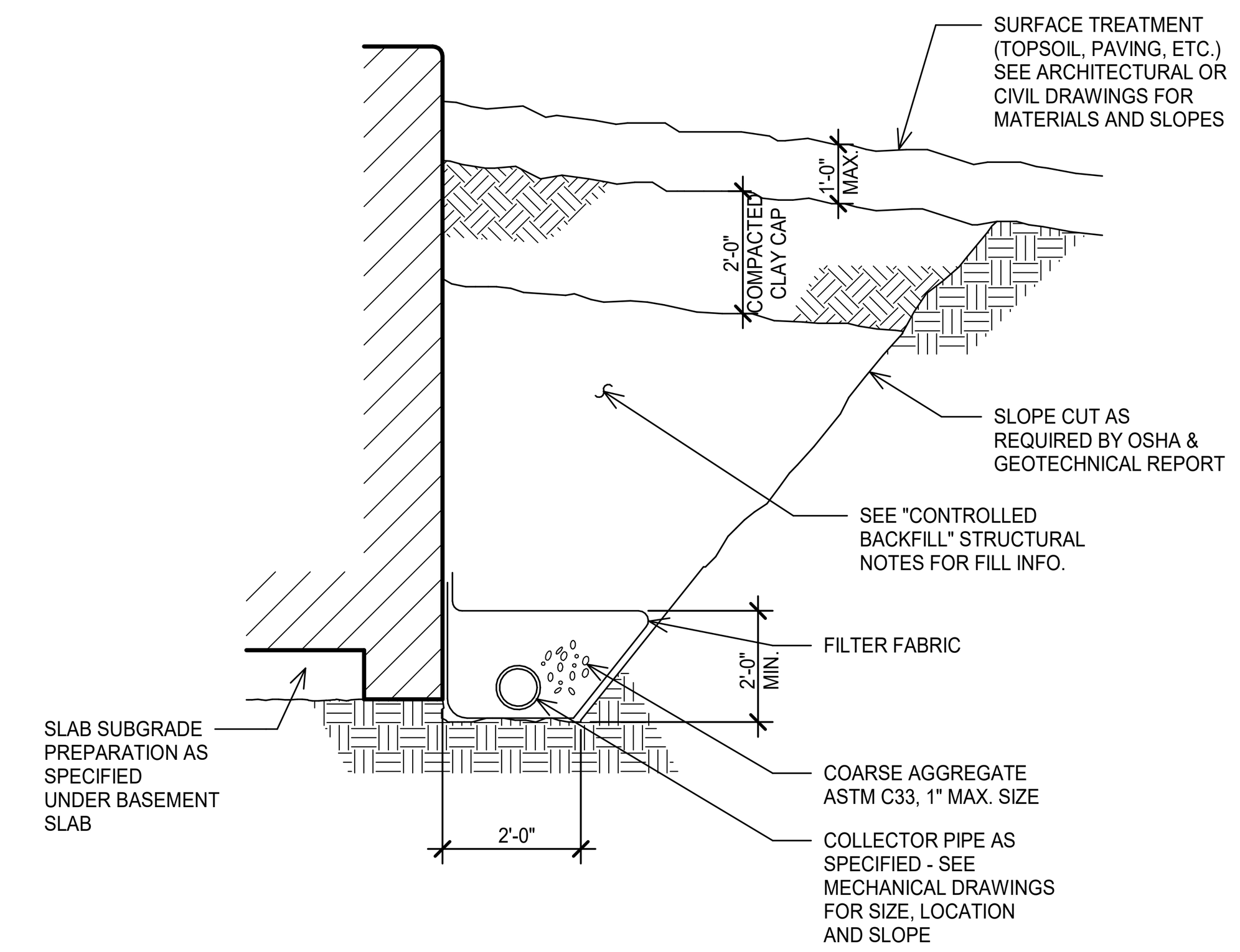
4 TYPICAL CONCRETE COLUMN ABOVE PIER DETAIL
NO SCALE



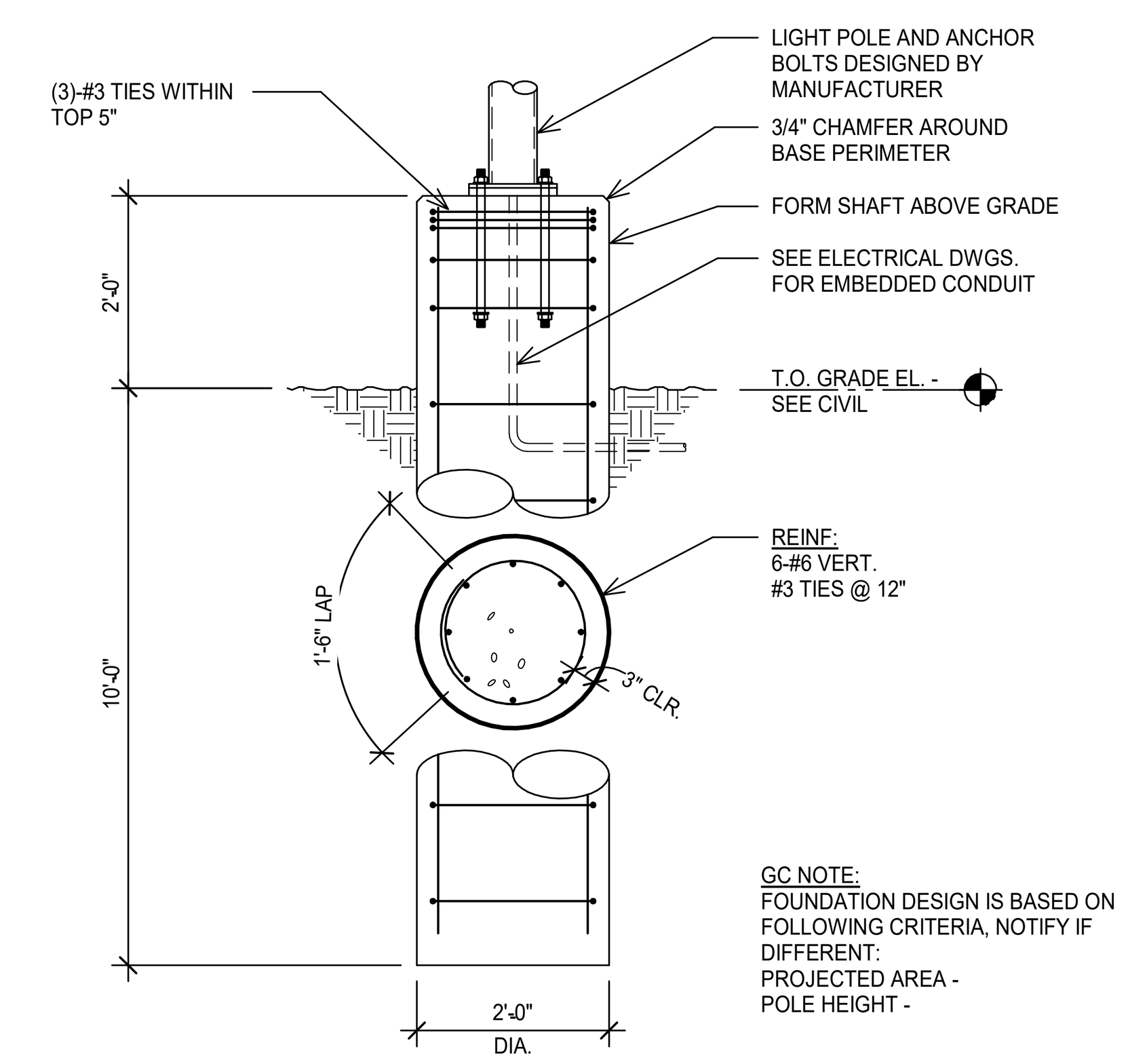
5 TYPICAL TOP OF PIER DETAIL
NO SCALE



6 TYPICAL TOP OF PIER DETAIL
NO SCALE



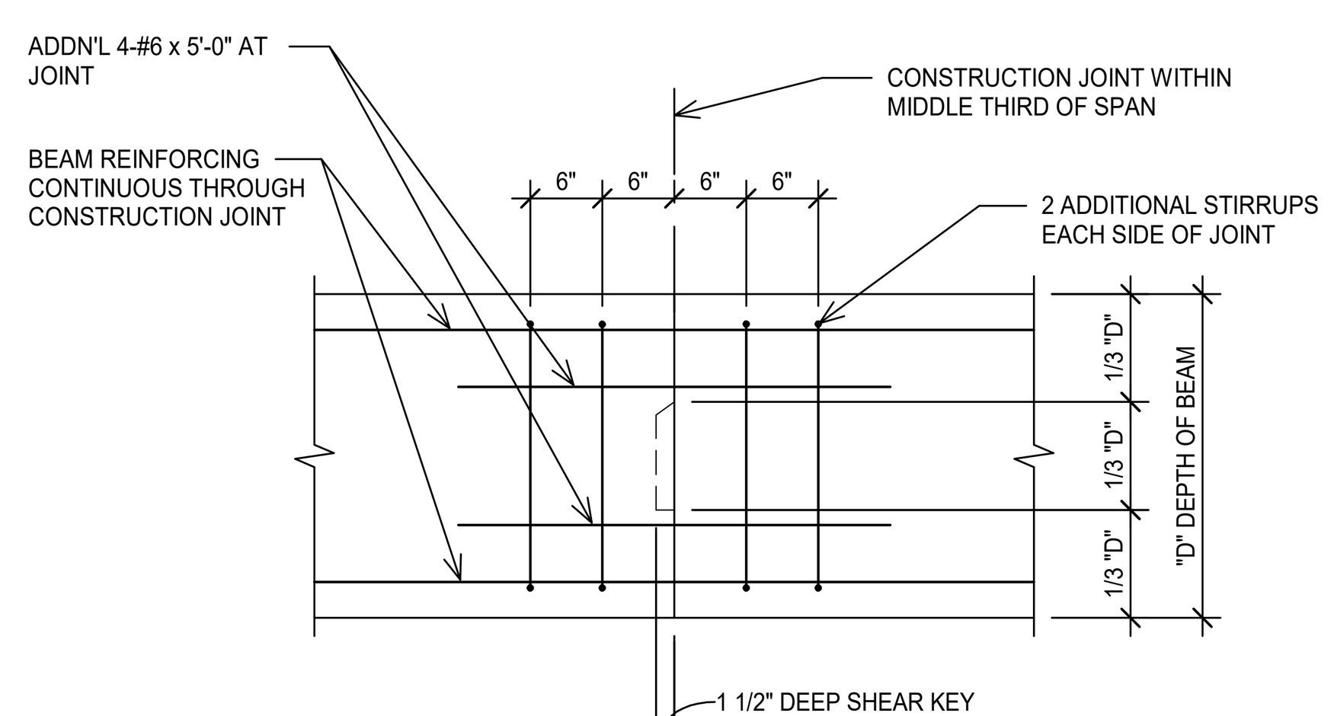
7 TYPICAL BACKFILL DETAIL
NO SCALE



GC NOTE:
FOUNDATION DESIGN IS BASED ON FOLLOWING CRITERIA, NOTIFY IF DIFFERENT:
PROJECTED AREA -
POLE HEIGHT -

ELEVATION

8 TYPICAL LIGHTPOLE FOUNDATION DETAIL
NO SCALE



NOTES:
1. THIS DETAIL APPLIES TO BEAMS < 4'-0" DEPTH.

ELEVATION

KEY WIDTH	
GRADEBEAM WIDTH "T"	W
≤ 12"	3 1/2"
12" TO 16"	5 1/2"
16" TO 20"	7 1/4"
20" TO 24"	9 1/4"
24" TO 30"	11 1/4"

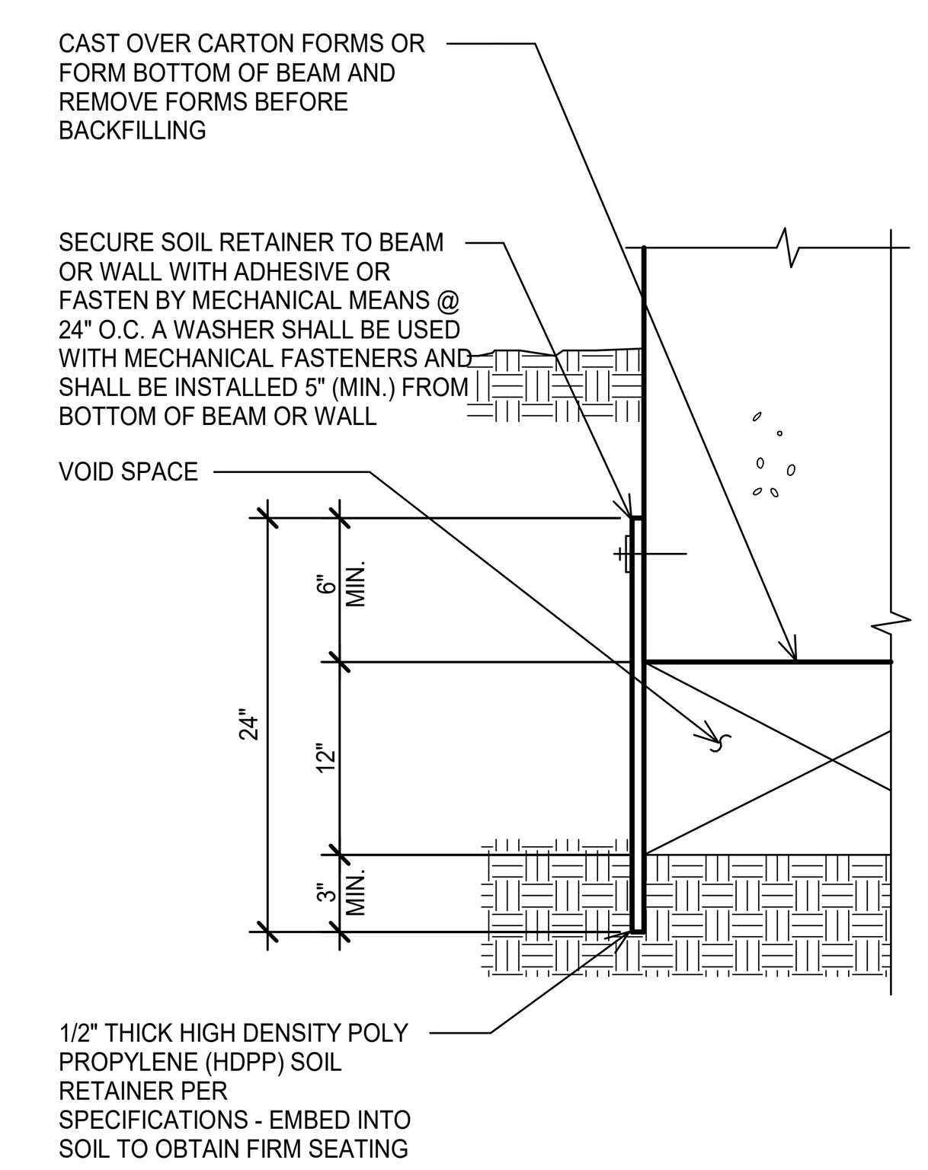
9 TYPICAL CONCRETE BEAM CONSTRUCTION JOINT DETAIL
NO SCALE

DOWEL SCHEDULE			
MARK	SIZE	A	B
DWL.-A	#4	1'-0"	3'-0"
DWL.-B	#4	3'-0"	3'-0"
DWL.-C	#4	2'-0"	2'-0"
DWL.-D	3/4" DIA. THD.	-	4'-0"
DWL.-E	1/2" DIA. THD.	-	3'-0"

NOTES:

1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT UNLESS NOTED OTHERWISE ON DETAILS.
3. DOWELS WITH "THD." IN "SIZE" COLUMN SHALL BE RICHMOND "CONTINUOUS THREADED LAGSTUD (2/25)" WITH RICHMOND "STANDARD 1/2"x4" 2/15 ANCHOR W/ WASHER" FOR 1/2" DIA. DOWELS AND "STANDARD 3/4"x6" 2/15 ANCHOR W/ WASHER" ANCHORS FOR 3/4"Ø DOWELS OR EQUAL.

10 DOWEL SCHEDULE
NO SCALE



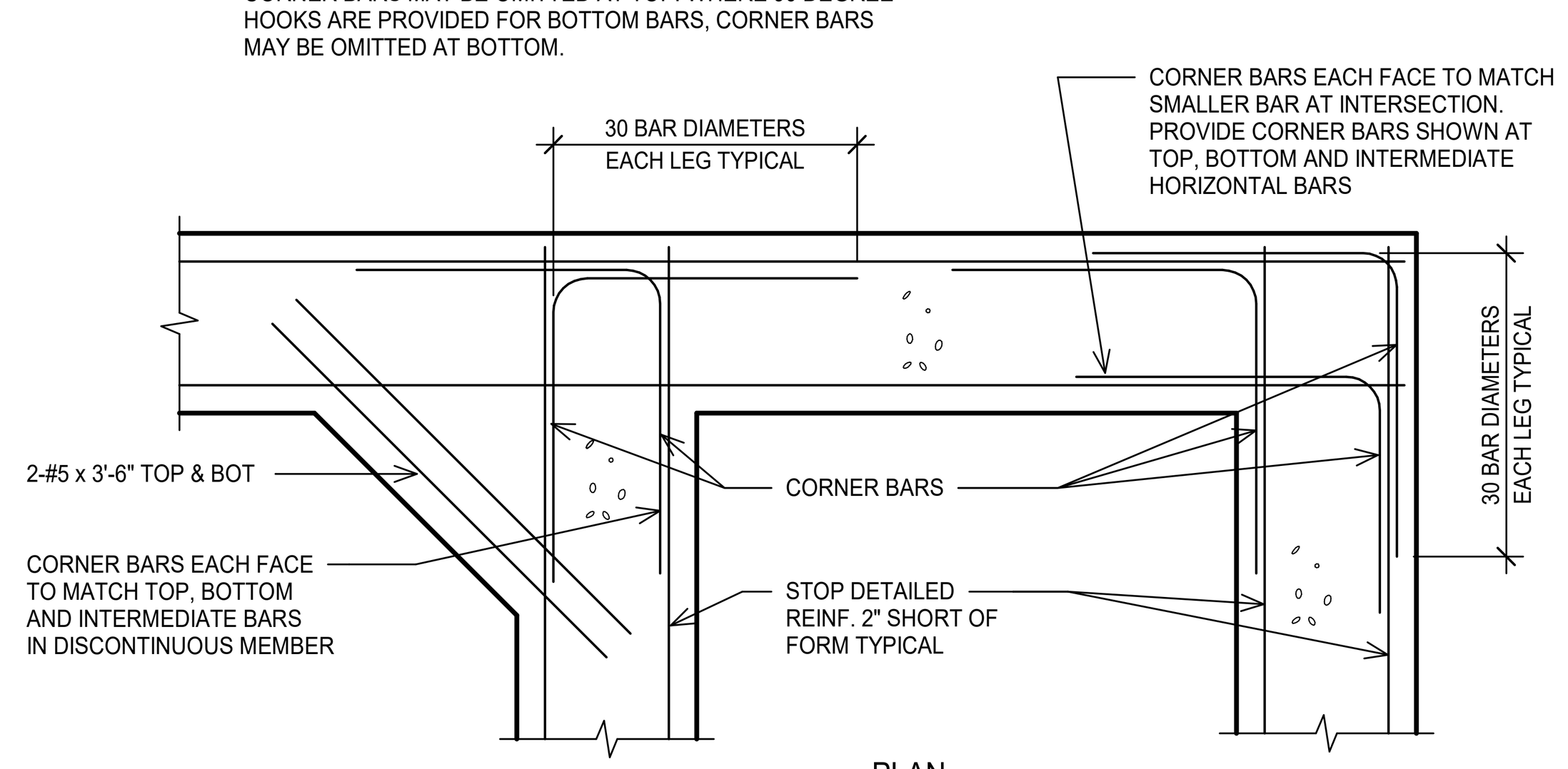
NOTES:

1. FORM ALL SIDES OF ALL BELOW GRADE BEAMS, WALLS, PILASTERS, AND PIER CAPS. EARTH FORMING IS NOT PERMITTED.
2. PLACE SOIL RETAINERS AT SIDES OF VOID SPACE UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE.
3. INSTALL SOIL RETAINERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
   A. PLACE BASE OF SOIL RETAINER IN A 3" DEEP TRENCH CUT IN UNDISTURBED SOIL OR COMPACTED FILL.
   B. STARTING AT END OF BEAM OR WALL PANEL, LAY SOIL RETAINER IN TRENCH AND PLACE VERTICAL AGAINST BEAM OR WALL PANEL. OVERLAP ENDS OF ADJACENT SOIL RETAINERS 6" MIN. & SECURE TO BEAM OR WALL THROUGH OVERLAP.
   C. CUT TO FIT ENDS OF BEAMS OR WALL PANELS. CUT LENGTHS LESS THAN 1'-0" IN LENGTH SHALL NOT BE USED.
   D. PLACE BACKFILL AS SPECIFIED AFTER COMPLETION OF SOIL RETAINER INSTALLATION. TAKE NECESSARY PRECAUTIONS TO PROTECT SOIL RETAINERS FROM DAMAGE FROM COMPACTION EQUIPMENT.
4. STORE RETAINERS FLAT AND PROTECTED FROM DIRECT SUNLIGHT TO AVOID WARPAGE.

11 TYPICAL HDPP SOIL RETAINER DETAIL
NO SCALE

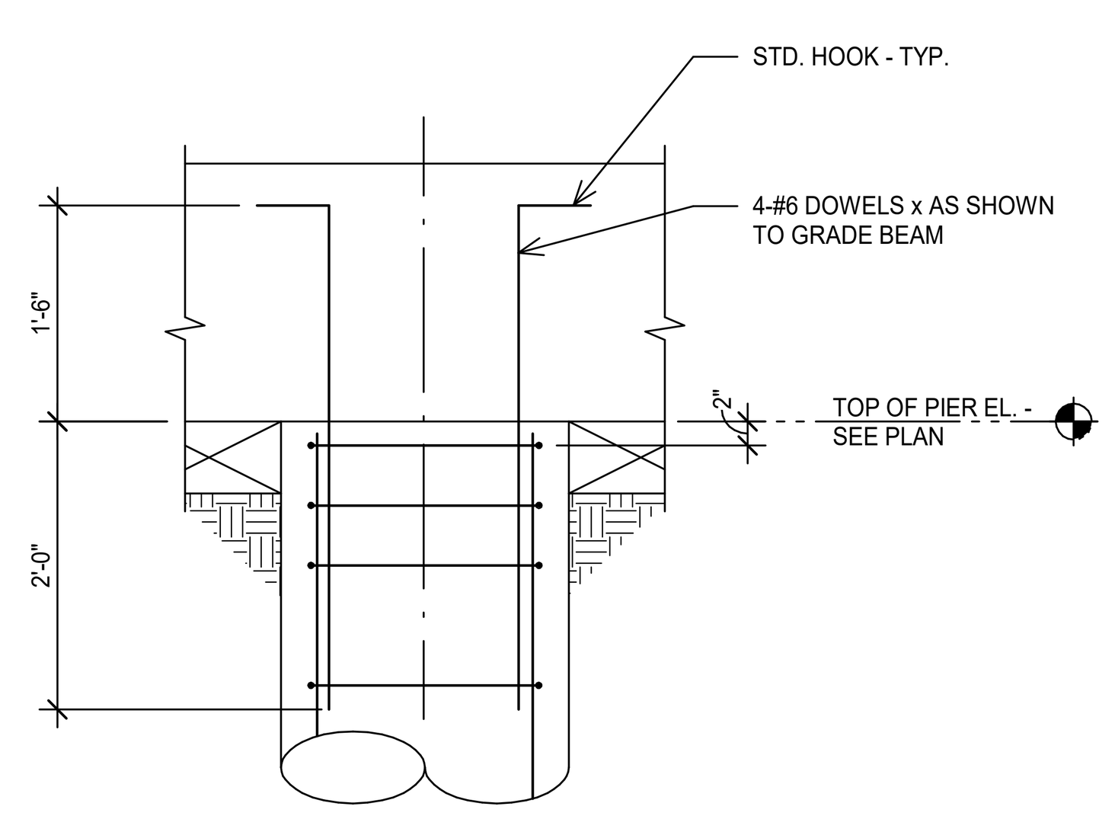
NOTES:

1. MATCH SIZE, LOCATION AND NUMBER OF HORIZONTAL BEAM AND WALL BARS, EXCEPT THAT WHERE THERE ARE MORE THAN 2 TOP OR BOTTOM BARS, ONLY THE INSIDE AND OUTSIDE BARS MUST BE MATCHED.
2. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR TOP BARS CORNER BARS MAY BE OMITTED AT TOP. WHERE 90 DEGREE HOOKS ARE PROVIDED FOR BOTTOM BARS, CORNER BARS MAY BE OMITTED AT BOTTOM.

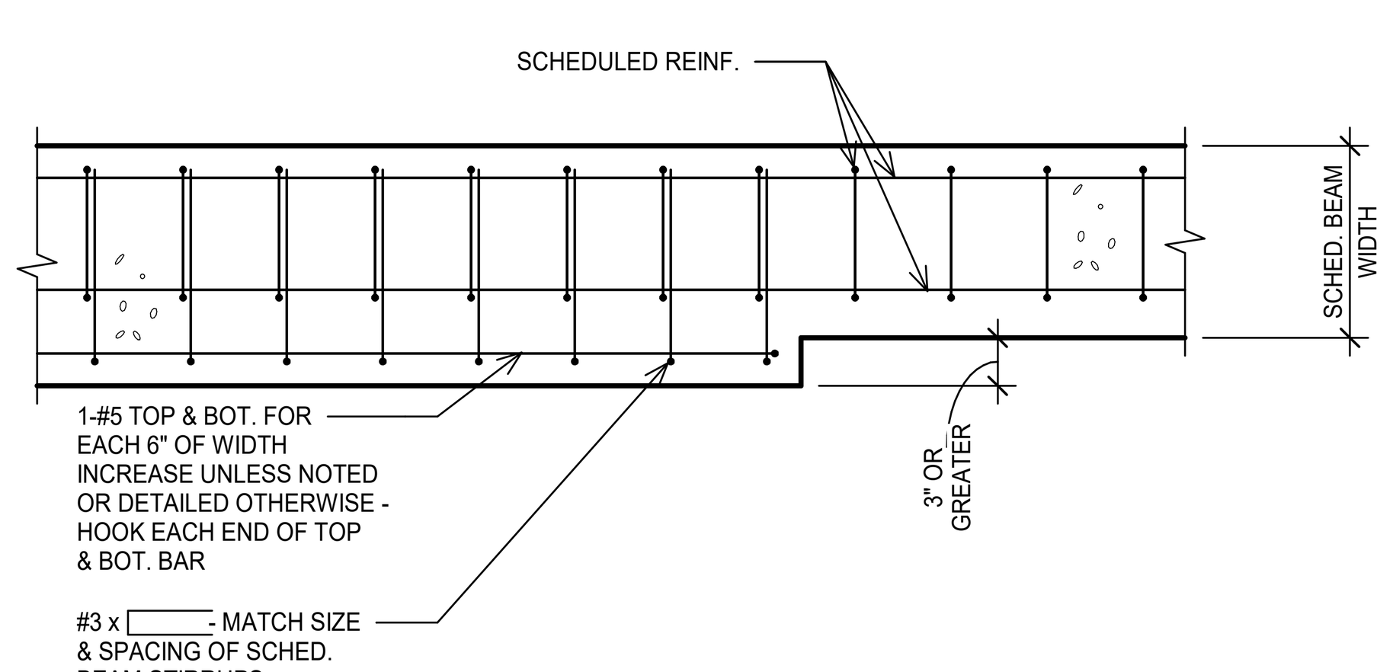


PLAN

12 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL
NO SCALE



13 TYPICAL GRADE BEAM TOP OF PIER DETAIL
SCALE: 3/4" = 1'-0"



PLAN

14 TYPICAL BEAM WITH VARYING WIDTH REINFORCING DETAIL
NO SCALE

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JQ ENGINEERING, LLP
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PROJECT NO: 3200110
TBPE FIRM F-1294

BRINKLEY SARGENT WIGINTON ARCHITECTS
Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469)467-0200
Security: LattaTech (972) 633-5850

COLLIN COUNTY ADF - PHASE 1 ADDITION
4300 COMMUNITY AVE, MCKINNEY, TX 75071

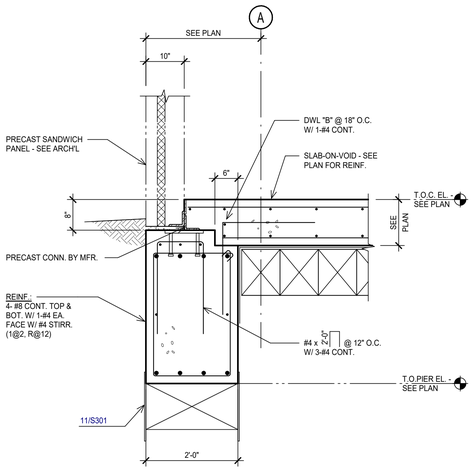
History		
#	Date	Description
1	8/18/2021	Addendum 2

8/18/21
STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED PROFESSIONAL ENGINEER
07/13/2021

TYPICAL CONCRETE DETAILS

BID SET

21913
07/13/2021
S301



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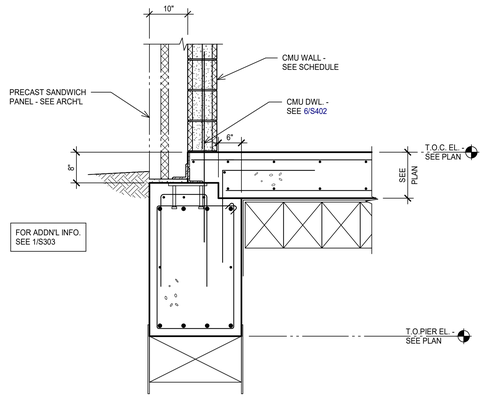

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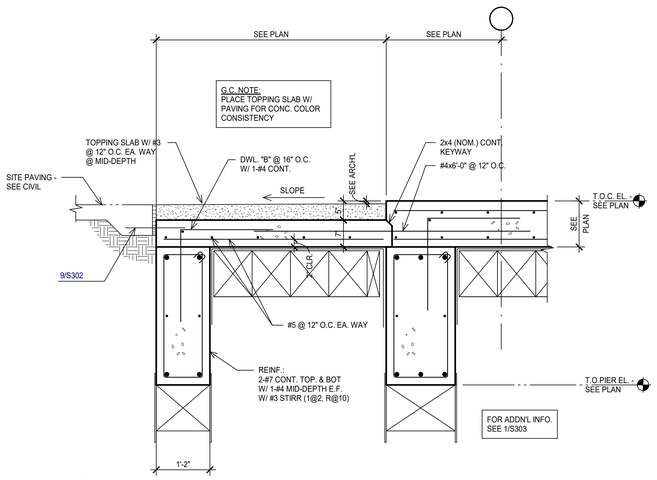

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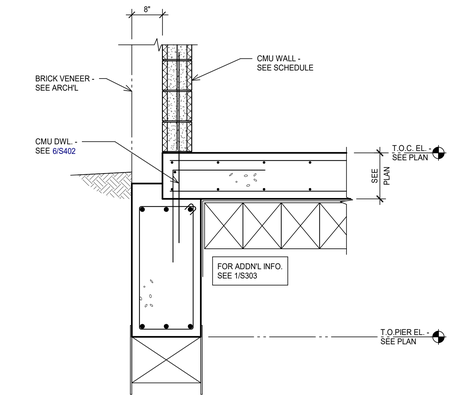

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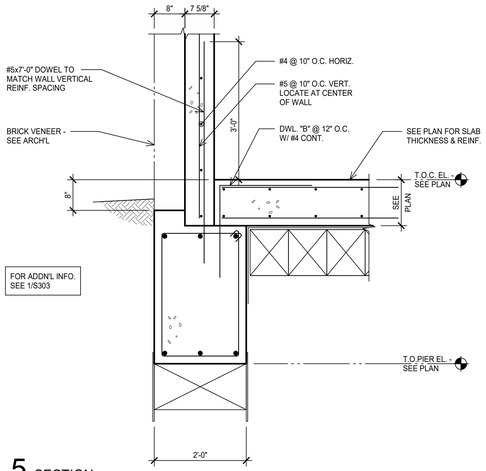

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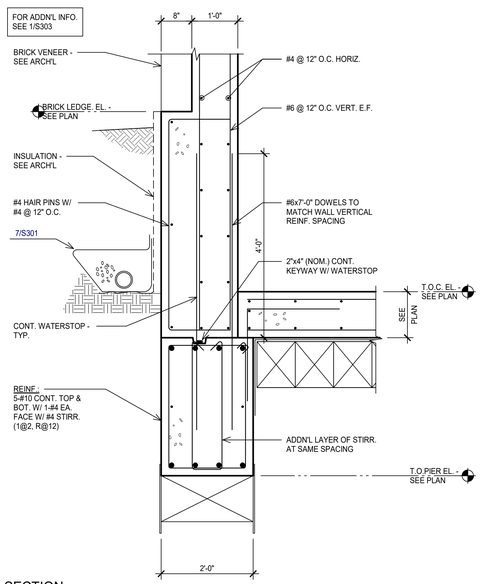

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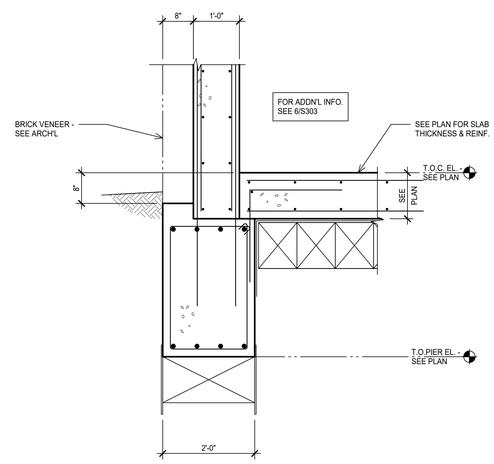

7 SECTION
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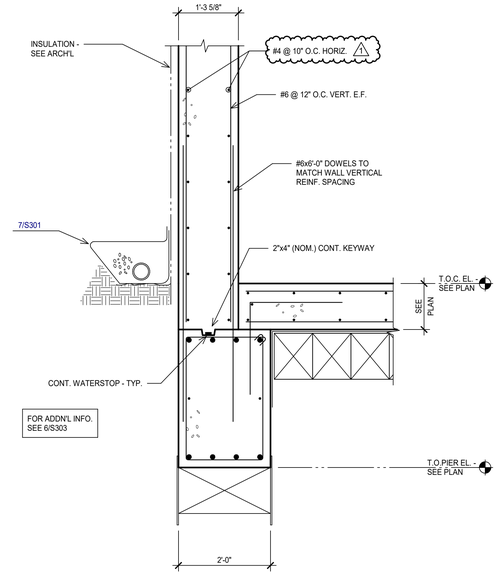

8 SECTION
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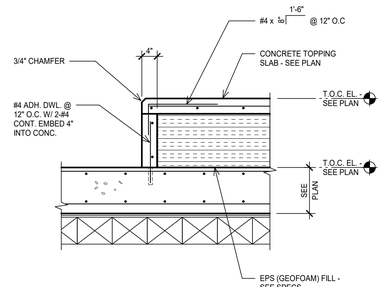

9 SECTION
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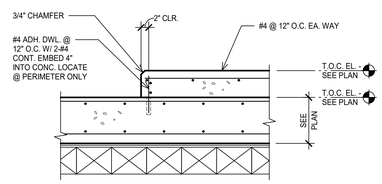

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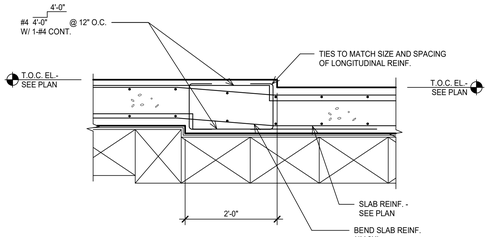

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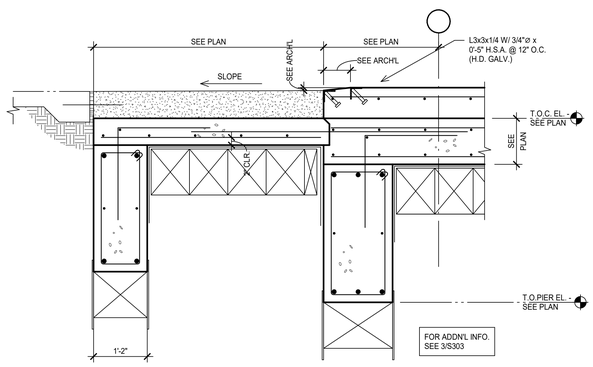

12 SECTION
SCALE: 3/4" = 1'-0"

shaping the built environment
JQ ENGINEERING, LLP
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PROJECT NO: 3200110
TBPE FIRM F-1294

COLLIN COUNTY ADF - PHASE 1 ADDITION

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BRINKLEY SARGENT WIGINTON ARCHITECTS

History		
#	Date	Description
1	8/18/2021	Addendum 2

8/18/21

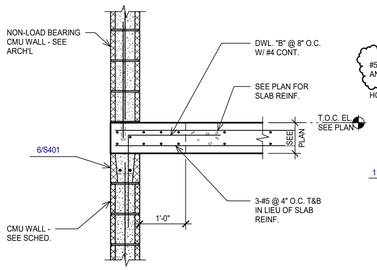
STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED
PROFESSIONAL ENGINEER

07/13/2021

CONCRETE DETAILS

BID SET

21913
07/13/2021
S303



1 SECTION
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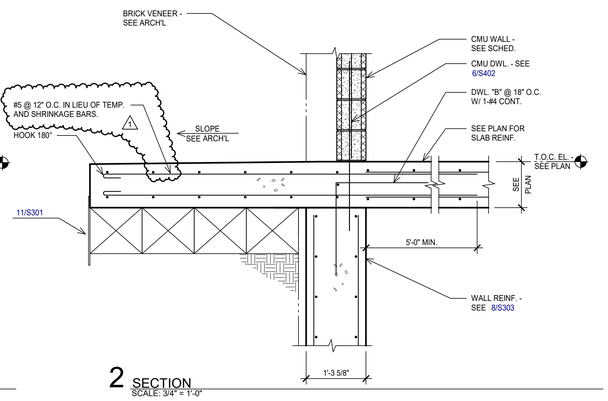
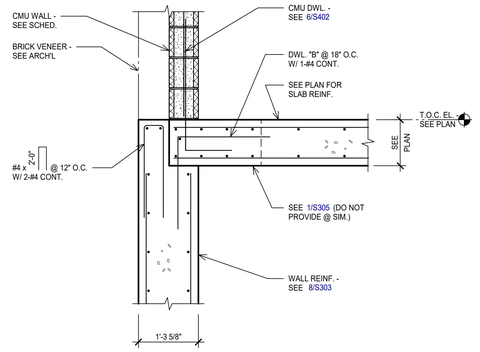


2 SECTION
SCALE: 3/4" = 1'-0"



3 SECTION
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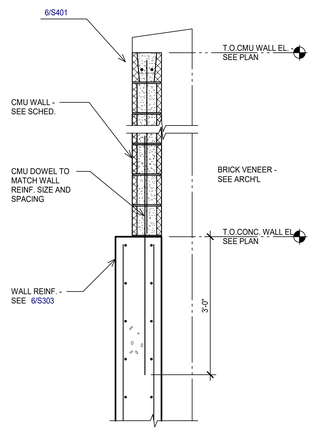

4 SECTION
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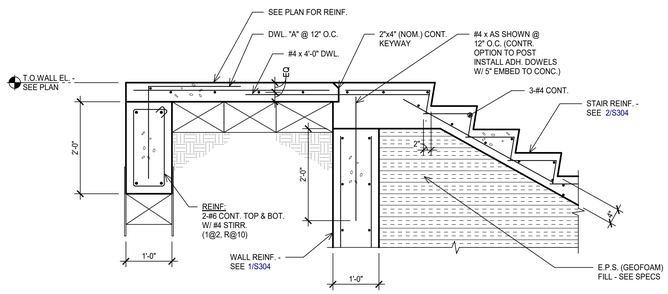
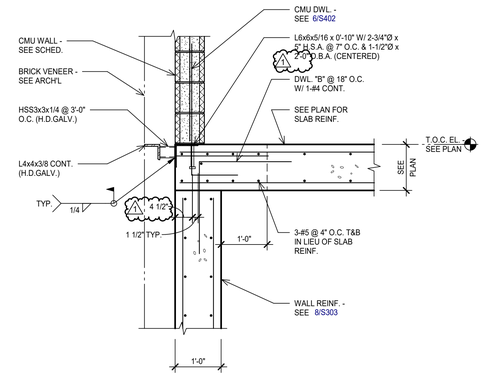
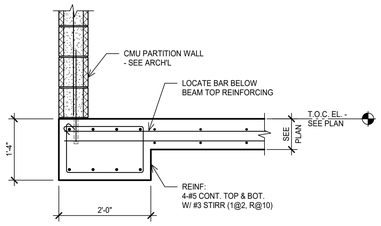


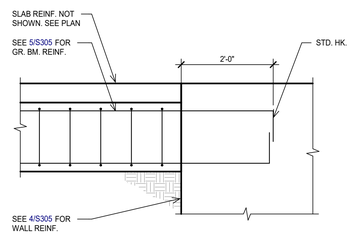
5 SECTION
SCALE: 3/4" = 1'-0"



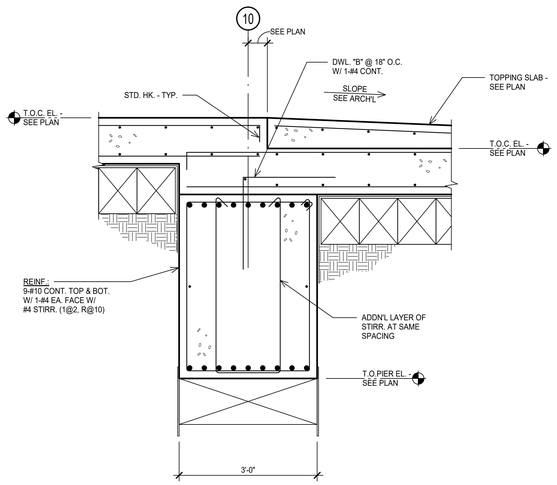
6 SECTION
SCALE: 3/4" = 1'-0"



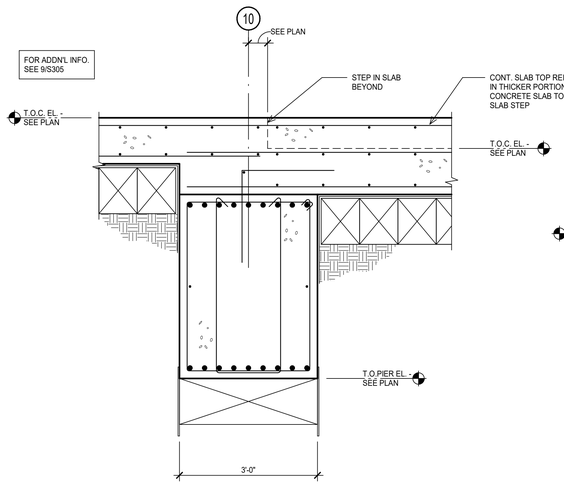
7 SECTION
SCALE: 3/4" = 1'-0"



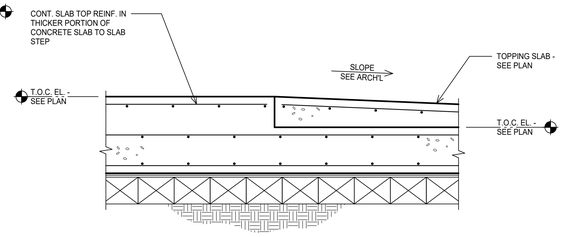
8 SECTION
SCALE: 3/4" = 1'-0"



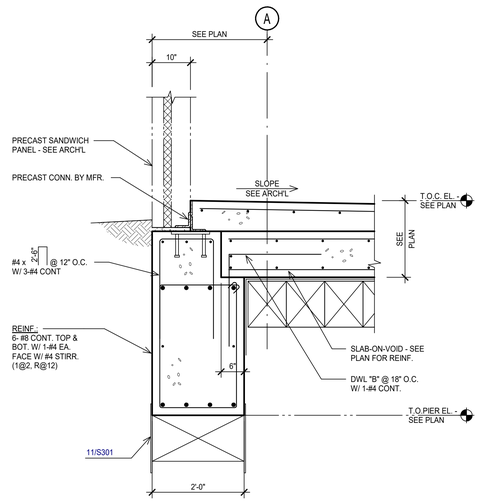
9 SECTION
SCALE: 3/4" = 1'-0"



10 SECTION
SCALE: 3/4" = 1'-0"



11 SECTION
SCALE: 3/4" = 1'-0"



12 SECTION
SCALE: 3/4" = 1'-0"

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BRINKLEY SARGENT WIGINTON ARCHITECTS
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COLLIN COUNTY ADF - PHASE 1 ADDITION

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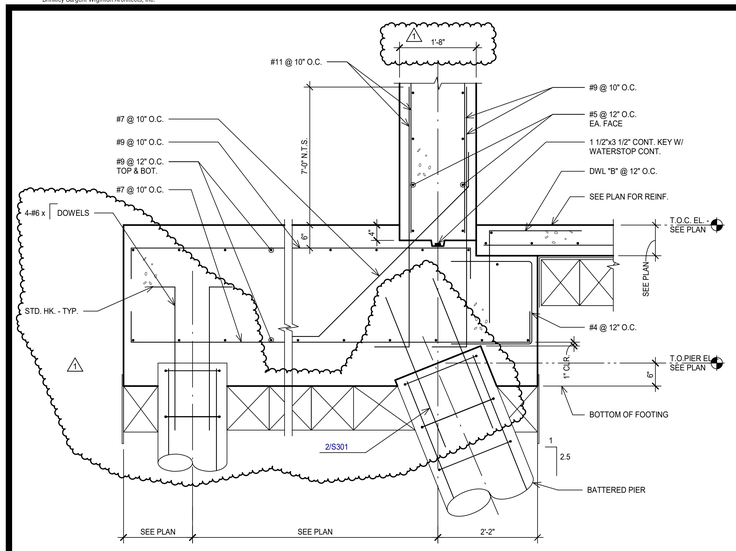
History		
#	Date	Description
1	8/18/2021	Addendum 2

STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED
PROFESSIONAL ENGINEER
8/18/21
07/13/2021

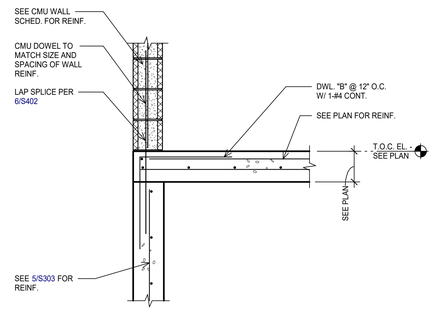
CONCRETE DETAILS

21913
07/13/2021
S305

BID SET



1 SECTION
SCALE: 3/4" = 1'-0"



2 SECTION
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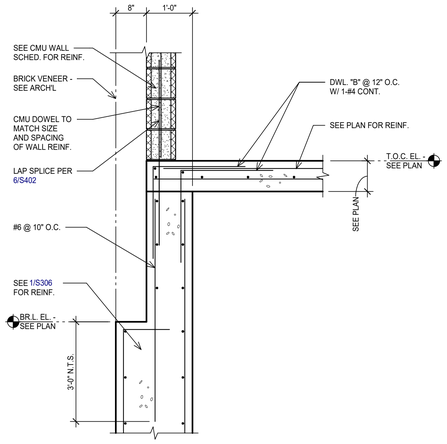
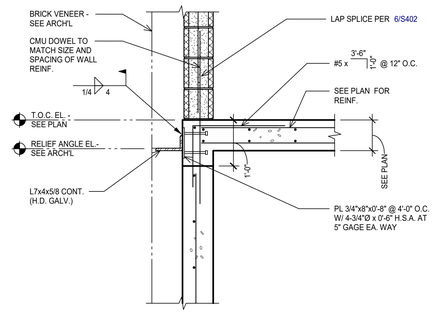


3 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
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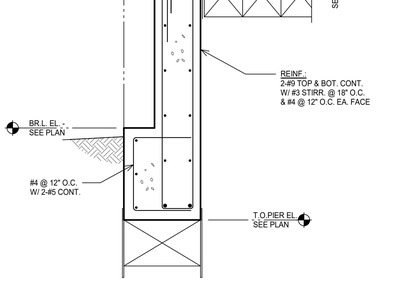

5 SECTION
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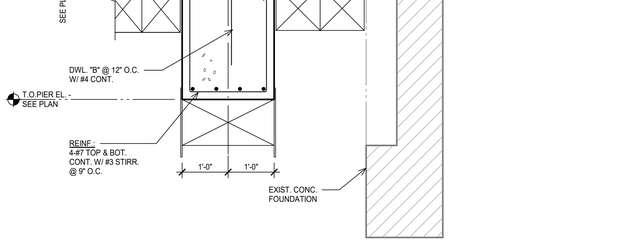

6 SECTION
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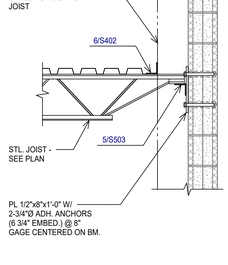

7 SECTION
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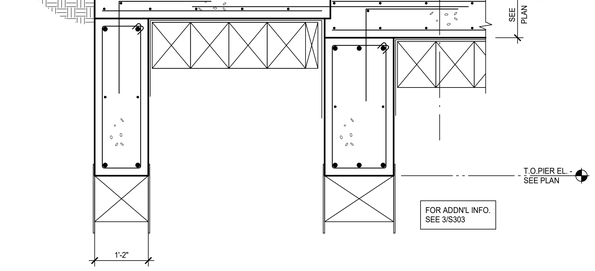

8 SECTION
SCALE: 3/4" = 1'-0"

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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
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8/18/21

STATE OF TEXAS MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER

07/13/2021

CONCRETE DETAILS

shaping the built environment
JQ ENGINEERING, LLP
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AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-12594

21913 | S306 | 07/13/2021

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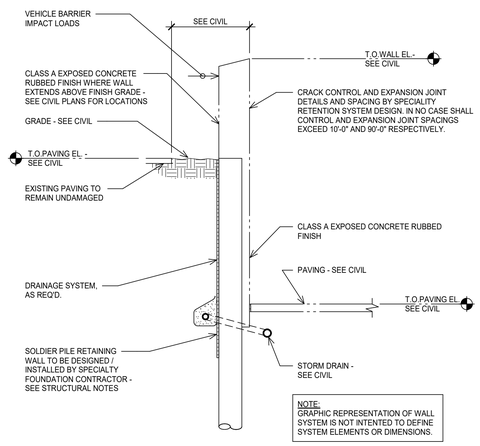


1 RETAINING WALL SECTION
SCALE: 1/4" = 1'-0"

SPECIALTY RETENTION SYSTEMS

A. The design of specialty retention systems shall be based on the referenced geotechnical report parameters, unless additional soil borings are taken at the expense of the Contractor. In addition to soil pressures, retaining wall shall be designed for surcharge live load of 100 psf and vehicle barrier impact loads in accordance with the Building Code.

B. Materials
1. Steel H-piles shall conform to ASTM A572, Gr. 50.
2. Shotcrete mix shall be designed by Contractor as required to support soil loads and to provide architecturally acceptable finish. Minimum 28 day compressive strength shall be 4,000 psi.
3. Shotcrete reinforcing shall conform to ASTM A615, Grade 60.

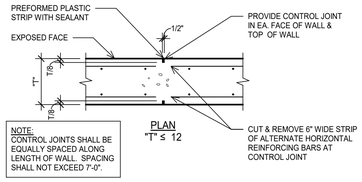
C. Shotcrete placement shall be in accordance with ACI 506R.

D. Provide a mockup wall segment of at least 10'-0" long and a minimum of 5'-0" tall for approval by the Architect prior to installation of the complete wall.

E. Contractor shall coordinate location of all handrail/guardrail posts prior to installation of retaining wall.

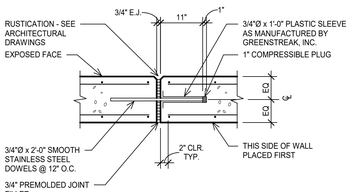
F. Contractor shall coordinate below grade drainage connections to adjacent storm sewer prior to installation of retaining wall.

G. Specialty retention system designer/installer shall submit shop drawings for review and approval prior to fabrication or construction. Shop drawings shall be signed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site to include the following:
1. Retaining wall plan and elevation indicating wall extents and plan dimensions of drilled piers/piles.
2. Wall sections indicating pier/pile installation depth, shotcrete thickness and reinforcing, backfill requirements, and wall finish requirements.
3. Behind wall drainage system and drain pipe plan locations and elevations.
4. Member material properties and shotcrete mix designs.
5. Signed and sealed calculations including design loads and member sizes.



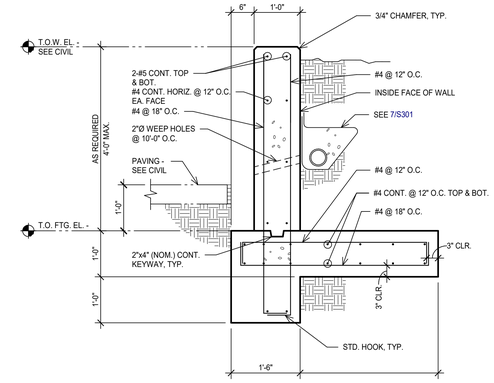
PLAN
"T" ≤ 12

2 FORMED RETAINING WALL CONTROL/CONTRACTION JOINT DETAIL
SCALE: 3/4" = 1'-0"



PLAN

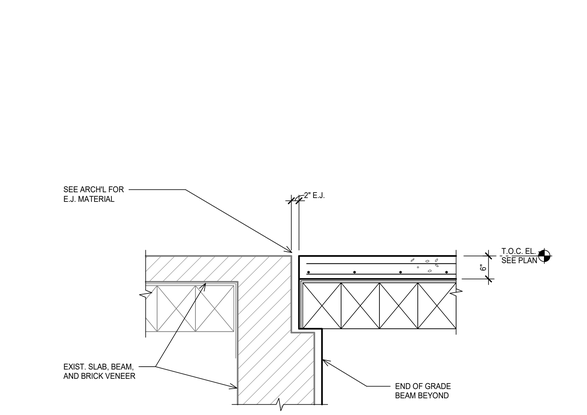
3 FORMED RETAINING WALL EXPANSION JOINT DETAIL
SCALE: 3/4" = 1'-0"



NOTES:

1. FOOTING SHALL BE PLACED ON UNDISTURBED EXISTING SOIL OR ROCK. FOOTING EXCAVATION SHALL BE INSPECTED BY THE GEOTECHNICAL LABORATORY TO DETERMINE THAT THE PROPER BEARING STRATUM IS OBTAINED AND THAT EXCAVATIONS ARE PROPERLY CLEAN & DRY BEFORE CONCRETE IS PLACED.
2. FOR BACKFILL BEHIND RETAINING WALLS SEE 7/S301

4 TYPICAL RETAINING WALL DETAIL
SCALE: 3/4" = 1'-0"

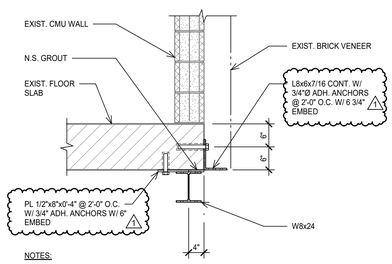


ELEVATION

5 ELEVATION
SCALE: 1/4" = 1'-0"

6 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"

7 BASE PLATE DETAIL
SCALE: 1 1/2" = 1'-0"



NOTES:

1. PRIOR TO REMOVING ANY EXISTING CONSTRUCTION, CONTRACTOR SHALL PROVIDE SHORING ADEQUATE TO SUPPORT ALL DEAD AND LIVE LOADS OF THE EXISING BUILDING. SHORING SHALL BE CONSTRUCTED TIGHT TO EXISTING CONSTRUCTION SUCH THAT THERE IS NO MOVEMENT WHEN EXISTING MASONRY IS REMOVED.
2. SHORING SHALL BE DESIGNED AND INSTALLED TO PREVENT ANY OVERSTRESS OF EXISTING CONSTRUCTION DURING REMOVAL OF EXISTING MASONRY.
3. SHORING LOADS SHALL BE ADEQUATELY DISTRIBUTED TO EXISTING FLOOR STRUCTURE SUCH THAT EQUIVALENT UNIFORM LOAD OF 100 PSF IS NOT EXCEEDED.
4. FIELD VERIFY ALL EXISTING CONDITIONS AND INCORPORATE INTO DESIGN AND CONSTRUCTION.
5. SHORING DESIGN AND DETAILS SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS.
6. SHORING SHALL REMAIN IN PLACE UNTIL ALL NEW CONSTRUCTION HAS BEEN ERECTED, FULLY CONNECTED, AND GROUT HAS REACHED COMPRESSIVE STRENGTH OF 3,000 PSI.

8 SECTION
SCALE: 3/4" = 1'-0"

9 SECTION
SCALE: 3/4" = 1'-0"

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaTailTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
#	Date	Description
1	8/18/2021	Addendum 2

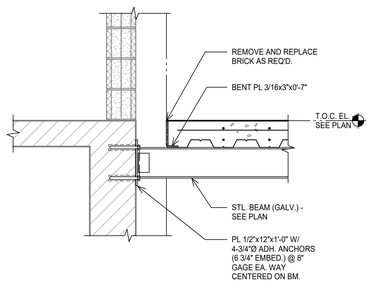
8/18/21
STATE OF TEXAS
MICHAEL LAVI
129526
LICENSED PROFESSIONAL ENGINEER
07/13/2021

CONCRETE DETAILS

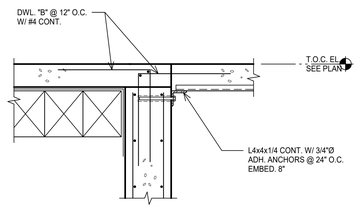
BID SET

21913
07/13/2021
S307

shaping the built environment
JQ ENGINEERING, LLP
109 WILD BASIN RD, SUITE 350
512.474.9094
AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294



1 SECTION
SCALE: 3/4" = 1'-0"



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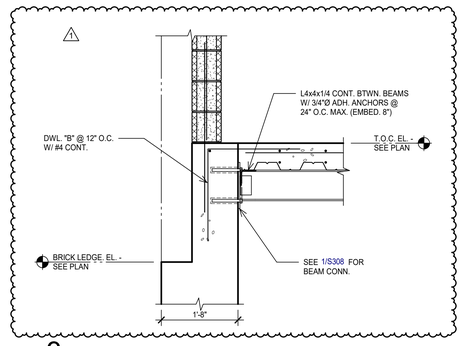

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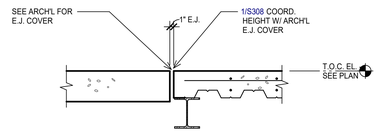

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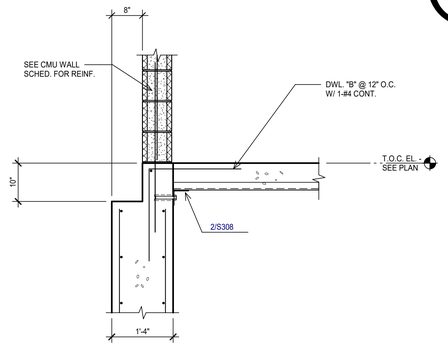

5 SECTION
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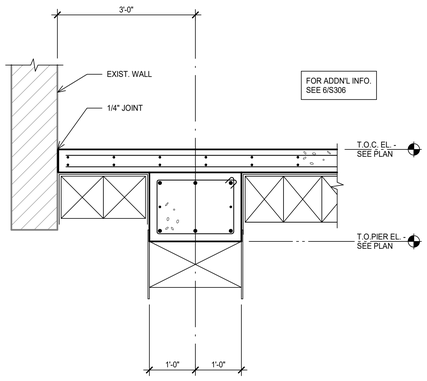

6 SECTION
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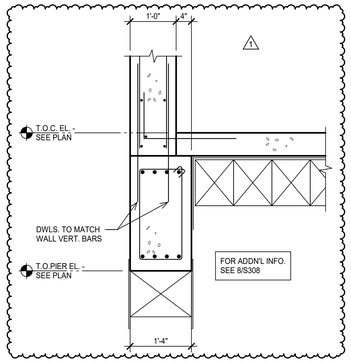

7 SECTION
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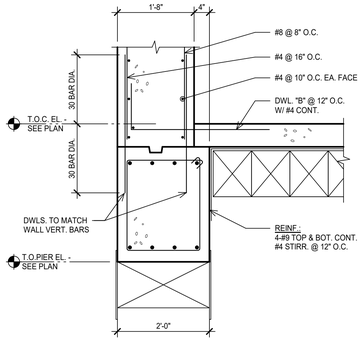

8 SECTION
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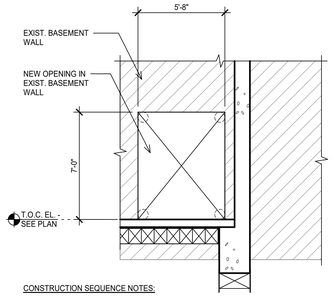
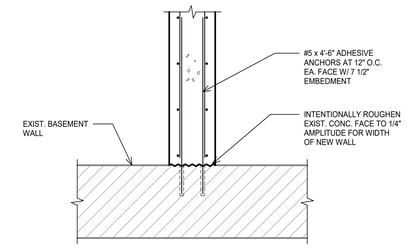


CONSTRUCTION SEQUENCE NOTES:

1. DO NOT CUT EXISTING WALL UNTIL NEW ABUTING BASEMENT WALL HAS BEEN PLACED AND HAS REACHED SPECIFIED 28 DAY STRENGTH.
2. CUTTING OF EXISTING WALL SHALL BE TO LIMITS SHOWN. PROVIDE CORE HOLES IN CORNERS OR OTHERS MEANS TO PREVENT SAW CUTS FROM EXTENDING OUTSIDE LIMITS OF OPENING.

9 ELEVATION - LOOKING WEST
SCALE: 1/4" = 1'-0"



PLAN

10 PLAN DETAIL
SCALE: 3/4" = 1'-0"

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
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1	8/18/2021	Addendum 2

8/18/21
STATE OF TEXAS
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07/13/2021

CONCRETE DETAILS

shaping the built environment
JQ ENGINEERING, LLP
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AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294

21913
07/13/2021
S308

BID SET

8/17/2021 4:25:54 PM
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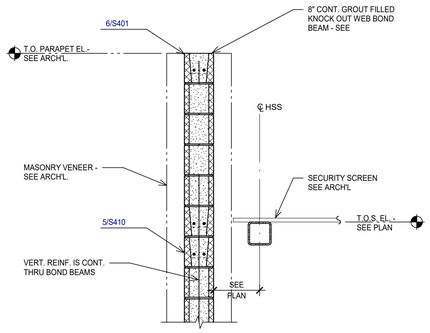

1 SECTION
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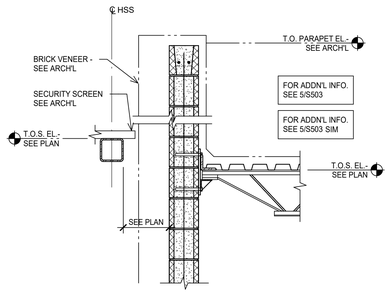

2 SECTION
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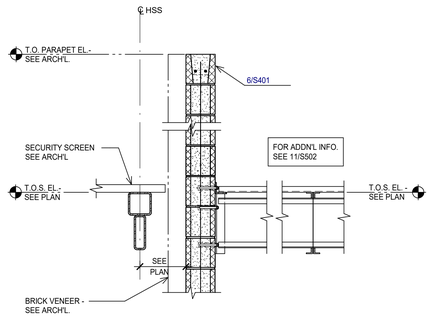
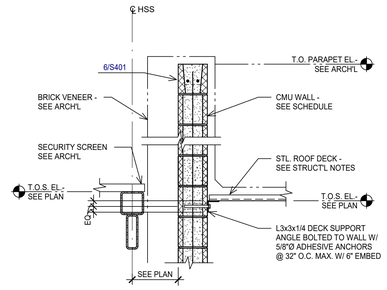
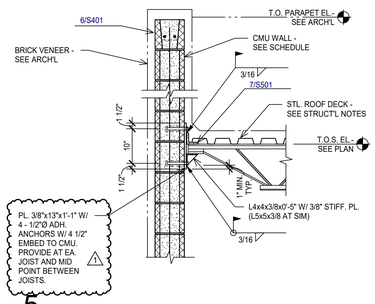


3 TYPICAL HORIZONTAL BRIDGING TO CMU DETAIL
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0"



5 SECTION
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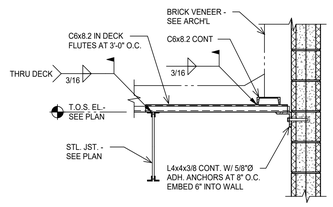
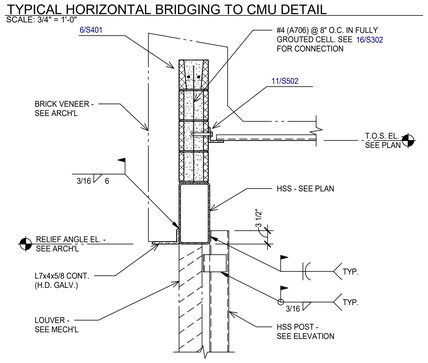
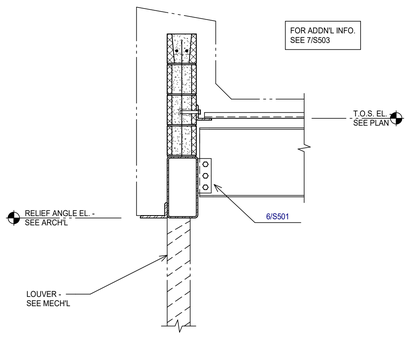


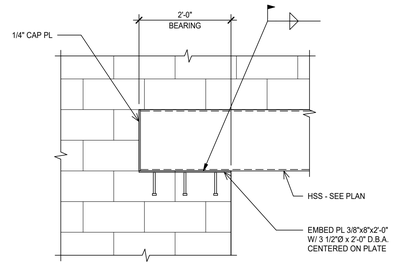
6 SECTION
SCALE: 3/4" = 1'-0"



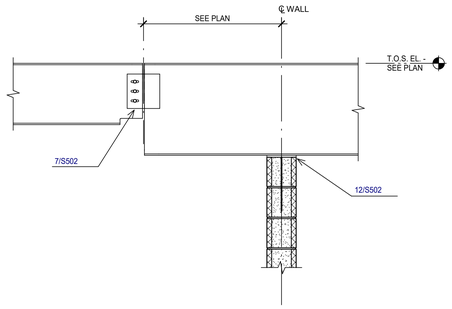
7 SECTION
SCALE: 3/4" = 1'-0"



8 SECTION
SCALE: 3/4" = 1'-0"



9 DETAIL
SCALE: 3/4" = 1'-0"



10 SECTION
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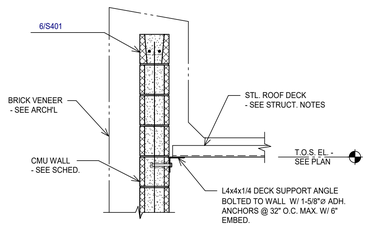

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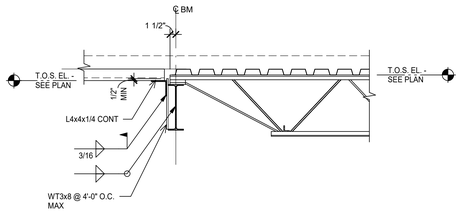
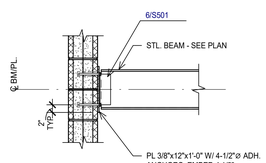
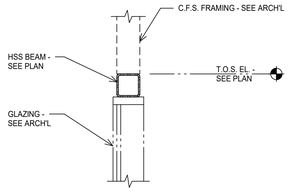


12 SECTION
SCALE: 3/4" = 1'-0"



13 SECTION
SCALE: 3/4" = 1'-0"



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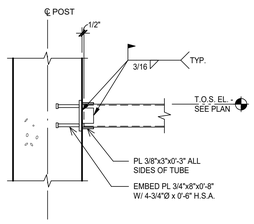

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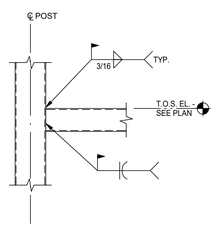
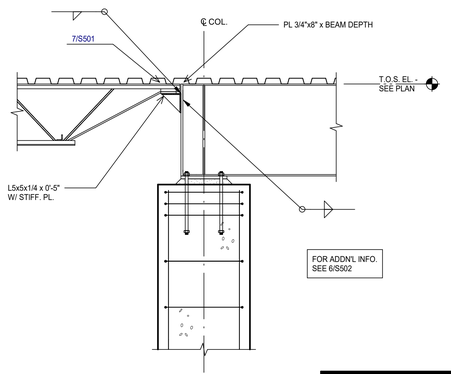


16 SECTION
SCALE: 3/4" = 1'-0"



17 DETAIL
SCALE: 3/4" = 1'-0"

shaping the built environment
JQ ENGINEERING, LLP
108 WILD BASIN RD, SUITE 350
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AUSTIN, TEXAS 78746
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PROJECT NO: 3200110
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Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
#	Date	Description
1	8/18/2021	Addendum 2

8/18/21

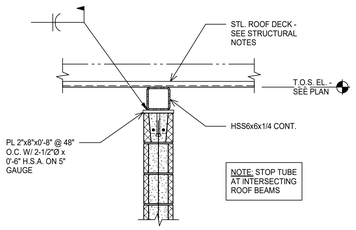
GF TEXAS REGISTERED MICHAEL LAVI 129526 LICENSED PROFESSIONAL ENGINEER

07/13/2021

STEEL DETAILS

BID SET

21913
07/13/2021
S503



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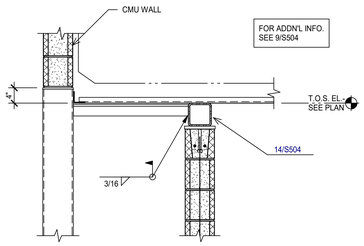

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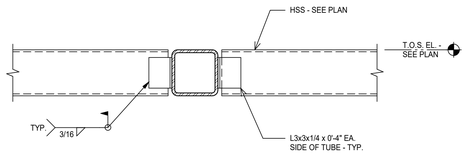

3 DETAIL
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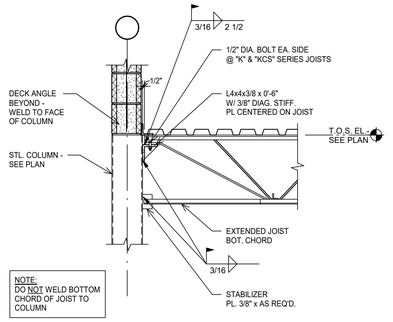

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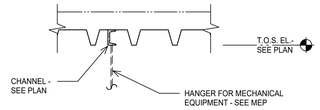

5 SECTION
SCALE: 1" = 1'-0"

6 SECTION
SCALE: 3/4" = 1'-0"

7 SECTION
SCALE: 3/4" = 1'-0"

⚠1 8 DETAIL
SCALE: 3/4" = 1'-0"

⚠1 9 DETAIL
SCALE: 1" = 1'-0"

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
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BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

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1	8/18/2021	Addendum 2

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STATE OF TEXAS
MICHAEL LAVI
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LICENSED PROFESSIONAL ENGINEER

07/13/2021

STEEL DETAILS

shaping the built environment
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PROJECT NO: 3200110
TBPE FIRM F-1294

21913
07/13/2021
S505

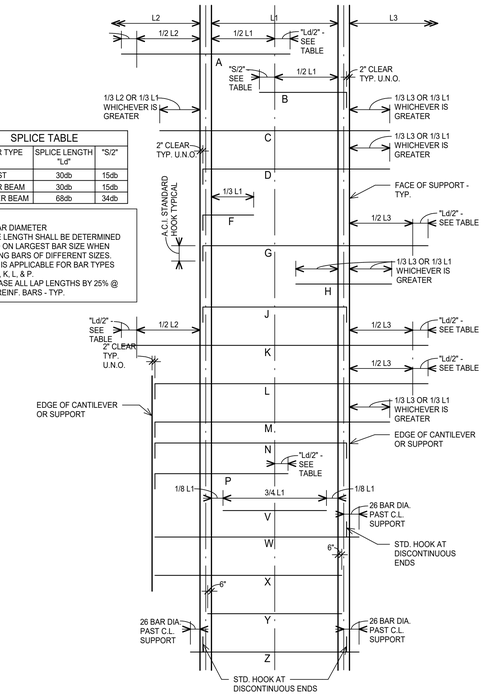
BID SET

CONCRETE BEAM SCHEDULE

MARK	BEAM WIDTH	BEAM WIDTH 2	BEAM DEPTH	BEAM DEPTH 2	REINFORCING TOP BARS LEFT END	REINFORCING BOTTOM BARS CENTER	REINFORCING TOP BARS CENTER	REINFORCING TOP BARS RIGHT END	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END FROM SUPPORT FACE	EXTRA INTERM. BARS (E.F.)	REMARKS
B1	24"		28"		4-#5B	2-#8Z, 2-#8Y		4-#5B	4	4	1@2, R@12		
B2	56"		28"		4-#5B, 4-#5F	3-#8Z, 3-#8Y		4-#8A, 4-#8H	4	7	1@2, R@10		
B3	56"		28"	23 1/2"		3-#9Z, 3-#9Y		4-#9A, 4-#9H	4	7	1@2, 14@8, R@10		
B4	56"		32"	18"		3-#9Z, 3-#9Y		4-#5B, 4-#5F	4	7	1@2, 16@6, R@10		
B5	18"		32"	28"	3-#5B	3-#8Z		3-#8A	4	7	1@2, 16@6, R@10		
B6	18"		32"			3-#8Z		3-#5B	4	4	1@2, R@12		
B7	18"		28"		3-#5B	3-#8Z		3-#5B	4	4	1@2, R@12		
B8	47"		32"	18"	4-#5B, 2-#5F	4-#8Z, 3-#8Y		5-#10A, 4-#10H	4	7	1@2, R@14		
B9	47"		32"	18"		4-#8Z, 3-#8Y		4-#5B, 2-#5F	4	7	1@2, R@14		
B10	50"		34 1/4"		4-#5B, 2-#5F	4-#10Z, 4-#10Y			4	7	1@2, 12@10, R@14	1-#6	
B11	56"		32"			4-#8Z, 4-#8Y	5-#9K, 4-#9C		4	7	1@2, R@14		
B12	56"		32"			4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, R@14		
B13	56"		32"			4-#8Z, 4-#8Y		4-#5B, 2-#5F	4	7	1@2, R@14		
B14	48"		32"		4-#5B, 2-#5F	3-#10Z, 3-#10Y		4-#10A, 3-#10H	4	7	1@2, R@8	4-#8	
B15	48"		32"			3-#9Z, 3-#9Y		4-#5B, 2-#5F	4	7	1@2, R@8	4-#8	
B16	36"		40"		4-#5B, 4-#5F	4-#9Z, 2-#9Y		4-#9A, 4-#9H	4	7	1@2, R@12	1-#6 E.F. CONT.	
B17	36"		40"			4-#9Z, 2-#9Y		4-#9A, 4-#9H	4	7	1@2, R@12	1-#6 E.F. CONT.	
B18	50"		40"			4-#9Z, 5-#9Y		6-#10A, 5-#10H	4	7	1@2, R@14	1-#6 E.F. CONT.	
B19	50"		40"			4-#10Z, 4-#10Y		6-9A, 4-#9H	4	7	1@2, R@14	1-#6 E.F. CONT.	
B20	50"		32"			4-#9Z, 4-#9Y		6-#9A, 4-#9H	4	7	1@2, R@14		
B21	30"		34 1/4"		3-#5B, 3-#5F	3-#8Z, 3-#8Y		3-#5B, 3-#5F	4	7	1@2, R@8	3-#8	

POST-TENSIONED CONCRETE BEAM SCHEDULE

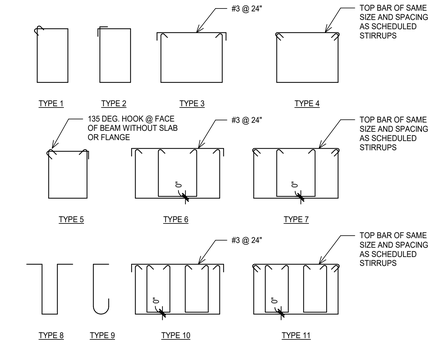
MARK	BEAM WIDTH	BEAM WIDTH 2	BEAM DEPTH	BEAM DEPTH 2	REINFORCING TOP BARS LEFT END	REINFORCING BOTTOM BARS CENTER	REINFORCING TOP BARS CENTER	REINFORCING TOP BARS RIGHT END	STIRRUPS SIZE	STIRRUPS TYPE	STIRRUPS SPACING EACH END FROM SUPPORT FACE	EXTRA INTERM. BARS (E.F.)	POST-TENSION REINFORCING P-T FORCE (Kips)	POST-TENSION REINFORCING CGS @ LEFT (IN.)	POST-TENSION REINFORCING CGS @ MIDSPAN (IN.)	POST-TENSION REINFORCING CGS @ RIGHT END (IN.)	REMARKS
PTB1	51"		32"	23 1/2"	4-#8B, 4-#8F	4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		700	14	3	19.5	
PTB2	51"		32"	23 1/2"		4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		700	19.5	3	25	
PTB3	51"		32"			4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		700	25	16	16	
PTB4	72"		32"	23 1/2"	5-#8B, 5-#8F	5-#8Z, 5-#8Y		5-#8A, 5-#8H	4	11	1@2, 3@8, R@12		900	14	3	19.5	
PTB5	72"		32"	23 1/2"		5-#8Z, 5-#8Y		5-#8A, 5-#8H	4	11	1@2, 3@8, R@12		900	19.5	3	25	
PTB6	72"		32"			5-#8Z, 5-#8Y		5-#8B, 5-#8F	4	11	1@2, 3@8, R@12		900	25	16	16	
PTB7	48"		32"	23 1/2"	4-#8B, 4-#8F	4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		550	14	3	19.5	
PTB8	48"		32"	23 1/2"		4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		550	19.5	3	25	
PTB9	48"		32"			4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		550	25	16	16	
PTB10	68"		32"	23 1/2"	5-#8B, 5-#8F	5-#8Z, 5-#8Y		5-#8A, 5-#8H	4	7	1@2, 3@8, R@12		850	14	3	19.5	
PTB11	68"		32"	23 1/2"		5-#8Z, 5-#8Y		5-#8A, 5-#8H	4	7	1@2, 3@8, R@12		850	19.5	2.5	25	
PTB12	68"		32"			5-#8Z, 5-#8Y		5-#8B, 5-#8F	4	7	1@2, 3@8, R@12		850	25	16	16	
PTB13	51"		32"	23 1/2"	4-#8B, 4-#8F	4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		500	14	3	19.5	
PTB14	51"		32"	23 1/2"		4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		500	19.5	3	25	
PTB15	51"		32"			4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		500	25	16	16	
PTB16	51 1/4"		32"		4-#8B, 4-#8F	4-#8Z, 4-#8Y			4	7	1@2, 3@8, R@12		250	16	3	22	
PTB17	51 1/4"		32"			4-#8Z, 4-#8Y	4-#8K, 4-#8C		4	7	1@2, 3@8, R@12		250	22	3	22	
PTB18	51 1/4"		32"			4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		250	22	3	22	
PTB19	51 1/4"		32"			4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		250	22	16	16	
PTB20	53"		28"		4-#8B, 4-#8F	4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		525	16	4	23	
PTB21	53"		28"			4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		525	23	23	23	
PTB22	53"		32"	28"		4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12						
PTB23	53"		32"			4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		525	22	16	16	
PTB24	61"		28"		5-#8B, 7-#8F	5-#8Z, 5-#8Y			4	11	1@2, 3@8, R@12		400	16	3	22	
PTB25	61"		28"			5-#8Z, 5-#8Y	7-#8K, 7-#8C		4	11	1@2, 3@8, R@12		400	22	22	22	
PTB26	61"		28"			5-#8Z, 5-#8Y		7-#8A, 7-#8H	4	11	1@2, 3@8, R@12		400	22	4.5	21	
PTB27	61"		32"	28"		5-#8Z, 5-#8Y		5-#8B, 5-#8F	4	11	1@2, 3@8, R@10						
PTB28	43"		28"		4-#8B, 3-#8F	4-#8Z, 3-#8Y			4	7	1@2, 3@8, R@12		250	16	4.5	18	
PTB29	43"		28"			4-#8Z, 3-#8Y	4-#8K, 7-#8C		4	7	1@2, 3@8, R@12		250	18	18	18	
PTB30	43"		28"			4-#8Z, 3-#8Y		4-#8A, 7-#8H	4	7	1@2, 3@8, R@12		250	18	3	18	
PTB31	43"		32"	28"		4-#8Z, 3-#8Y		4-#8, 3-#8F	4	7	1@2, 3@8, R@12						
PTB32	56"		28"		4-#8B, 4-#8F	4-#8Z, 4-#8Y			4	7	1@2, 3@8, R@12		575	16	3	24	
PTB33	56"		28"			4-#8Z, 4-#8Y	4-#8K, 4-#8C		4	7	1@2, 3@8, R@12		575	24	24	24	
PTB34	56"		24"			4-#8Z, 4-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		575	20	3	20	
PTB35	56"		32"	28"		4-#8Z, 4-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12						
PTB36	48"		32"		4-#8B, 4-#8F	4-#8Z, 3-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		350	14	3	25	
PTB37	48"		32"			4-#8Z, 3-#8Y		4-#8A, 4-#8H	4	7	1@2, 3@8, R@12		350	25	3	25	
PTB38	48"		32"			4-#8Z, 3-#8Y		4-#8B, 4-#8F	4	7	1@2, 3@8, R@12		350	25	16	16	
PTB39	54"		32"		4-#9B, 4-#9F	4-#9Z, 3-#9Y		4-#9A, 4-#9H	4	7	1@2, 16@8, R@12	4-#9	1000	16	3	21	
PTB40	54"		32"			4-#9Z, 3-#9Y		4-#9B, 4-#9F	4	7	1@2, 16@8, R@12	4-#9	1000	21	3	16	
PTB41	48"		34 1/4"		4-#9B, 3-#9F	4-#9Z, 3-#9Y			4	7	1@2, 32@6, R@12	4-#9	1450	18	3	28	
PTB42	48"		34 1/4"			4-#9Z, 3-#9Y	4-#9K, 3-#9C		4	7	1@2, 14@6, R@12	4-#9	1450	28	28	28	
PTB43	48"		34 1/4"			4-#9Z, 3-#9Y		4-#9B, 3-#9F	4	7	1@2, 26@6, R@12	4-#9	1450	28	5	18	
PTB44	54"		36"		4-#8B, 5-#8F	4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	20	16.5	29	1-#6 E.F. CONT.
PTB45	54"		36"	31 1/2"		4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	29	3	29	1-#6 E.F. CONT.
PTB46	54"		40"	31 1/2"		4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	29	3	25	1-#6 E.F. CONT.
PTB47	54"		31 1/2"			4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	25	3	25	
PTB48	54"		40"	31 1/2"		4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 12@4, R@14		800	25	3	26	1-#6 E.F. CONT.
PTB49	54"		31 1/2"			4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 10@6, R@14		800	26	3	26	
PTB50	54"		40"			4-#8Z, 5-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	26	3	33.5	1-#6 E.F. CONT.
PTB51	54"		40"			4-#8Z, 5-#8Y		4-#8B, 5-#8F	4	7	1@2, 3@8, R@12		800	33.5	3	26	1-#6 E.F. CONT.
PTB52	60"		28"		4-#8B, 5-#8F	4-#8Z, 4-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	23	23	23	
PTB53	60"		32"	28"	4-#8Z, 4-#8Y			4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	3	23	23	
PTB54	60"		32"			4-#8Z, 4-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	23	3	23	
PTB55	60"		32"			4-#8Z, 4-#8Y		4-#8A, 5-#8H	4	7	1@2, 3@8, R@12		800	23	9.25	23	
PTB56	60"		32"			4-#8Z, 4-#8Y		4-#8B, 5-#8F	4	7	1@2, 3@8, R@12		800	23	3	16	
PTB57	38"		32"		3-#8B, 2-#8B	2-#8Z, 2-#8Y		4-#8A, 3-#8H	4	7	1@2, 3@8, R@12		275	21	18	22	
PTB58	38"		32"			2-#8Z, 3-#8Y		4-#8A, 3-#8H	4	7	1@2, 3@8, R@12		275	22	5.75	24	
PTB59	38"		32"			2-#8Z, 2-#8Y		3-#8F, 2-#8B	4	7	1@2, 3@8, R@12		275	24	12	21	
PTB60	36"		32"		3-#8F, 2-#8B	3-#8Z, 2-#8Y		4-#8A, 3-#8H	4	7	1@2, 3@8, R@12		275	21.25	18.25	22	
PTB61	36"		32"			3-#8Z, 2-#8Y		5-#8F, 2-#8B	4	7	1@2, 3@8, R@12		275	22	4	16	
PTB62	51"		32"	18"	4-#8F, 4-#8B	2-#8Z, 3-#8Y		5-#8H, 2-#8A	4	7	1@2, 3@8, R@12		325	19.50	4	16	
PTB63	51"		32"	23 1/2"		2-#8Z, 4-#8Y		5-#8H, 2-#8A	4	7	1@2, 3@8, R@12		325	16	4	24	
PTB64	51"		32"			2-#8Z, 3-#8Y		4-#8, 2-#8B	4	7	1@2, 3@8, R@12		325	24	14	19.50	
PTB65	54"		32"		4-#8F, 4-#8B	4-#8Z, 4-#8Y			4	7	1@2, 3@8, R@12		450	18	4	20	
PTB66	54"		32"			4-#8Z, 4-#8Y	4-#8K, 4-#8C		4	7	1@2, 3@8, R@12		450	20	20	20	
PTB67	54"		32"	18"		4-#8Z, 4-#8Y		4-#8H, 4-#8A	4	7	1@2, 3@8, R@12		450	20	4	24	
PTB68	54"		32"	18"		4-#8Z, 4-#8Y		4-#8H, 4-#8A	4	7	1@2, 3@8, R@12		450	24	4	24	
PTB69	54"		32"			4-#8Z, 4-#8Y		4-#8H, 4-#8A	4	7	1@2, 3@8, R@12		450	24	4	24	
PTB70	54"		32"			4-#8Z, 4-#8Y		4-#8H, 4-#8A	4	7	1@2, 3@8, R@12		450	24	4	24	
PTB71	54"		26"	24"		4-#8Z, 4-#8Y		4-#8H, 4-#8A	4	7	1@2, 3@8, R@12		450	16	4	16	
PTB72	54"		32"			4-#8Z, 4-#8Y		4-#8F, 4-#8B	4	7	1@2, 3@8, R@12		450	24	4	20.25	



SPLICE TABLE		
MEMBER TYPE	SPLICE LENGTH "Ld"	"S/2"
JOIST	30db	15db
INTERIOR BEAM	30db	15db
PERIMETER BEAM	68db	34db

NOTES:
1. db = BAR DIAMETER
2. SPLICE LENGTH SHALL BE DETERMINED BASED ON LARGEST BAR SIZE WHEN SPLICING BARS OF DIFFERENT SIZES.
3. TABLE IS APPLICABLE FOR BAR TYPES A, B, G, K, L, & P.
4. INCREASE ALL LAP LENGTHS BY 25% @ 75 ksi REINF. BARS - TYP.

1 TYPICAL BAR BENDING DIAGRAM
NO SCALE



2 TYPICAL STIRRUP TYPES
NO SCALE

Architect: Brinkley Sargent Wiginton Architects (972) 960-9970
Civil: Pacheco Koch (214) 451-2765
Structural: JQ Engineering (214) 752-9098
MEP / IT: MD Engineering (469) 467-0200
Security: LaffaTech (972) 633-3850

BRINKLEY SARGENT WIGINTON ARCHITECTS

COLLIN COUNTY ADF - PHASE 1 ADDITION

4300 COMMUNITY AVE, MCKINNEY, TX 75071

History		
#	Date	Description
1	8/18/2021	Addendum 2

STATE OF TEXAS — MICHAEL LAVI — 129526 — LICENSED PROFESSIONAL ENGINEER — 8/18/21

07/13/2021

CONCRETE BEAM SCHEDULE

shaping the built environment
JQ ENGINEERING, LLP
109 WILD BASIN RD, SUITE 350
512.474.9094
AUSTIN, TEXAS 78746
JQENG.COM
PROJECT NO: 3200110
TBPE FIRM F-1294

21913 | S602 | 07/13/2021

BID SET